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## **HAWAII AGRICULTURE 2000**

#### **Diversified Agriculture Overcomes Adversity to Post Record Returns**

Farm level revenue for 2000 totaled \$521 million, 2 percent less than 1999, but still the second highest total in the past 9 years. The sixth record high year in a row for the diversified agriculture sector came up shy of offsetting the effects of lower sugar prices and the closure of two sugar operations. Pineapple, the State's leading commodity, held steady with the previous year. Drought-like conditions continued to plague many areas of the State for the third year, seriously impacting orchard crops such as fruits, coffee, and macadamia nuts, as well as cattle grazing. In spite of the weather, and global price declines for some commodities, diversified agriculture posted farm level revenues at a record \$357 million, 4 percent above the 1999 record.

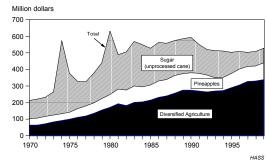
Highlighting gains in the diversified sector were record farm receipts for vegetables and melons, ginger root, flowers and nursery products, aquaculture, seed crop research and sales, and bananas, along with gains posted for tropical specialty fruits, papayas, and cattle. Improved prices helped boost cattle receipts, but the increase was also, in part, a result of increased marketings as ranchers were forced to reduce herd sizes due to drought-related scarce forage supplies. Drought and low prices also adversely affected macadamia nut and coffee production and returns.

The equivalent farm value of pineapple production (does not include the value added by processing) surpassed \$100 million for the second year in a row, just slightly above the previous year. A small increase in production and an increase in the value of processed utilization offset a decline in the value of fresh sales.

The equivalent farm value of sugarcane (does not include the processed value of raw sugar) fell to \$62 million, \$24 million below 1999. Culprits for the decline were lower world (and foreign government subsidized) prices for sugar, and the phasing out of some operations during the year. At years' end there was optimism among the remaining sugar companies that the futures of their operations were viable and acreage and production would stabilize or increase.

Farm level values are an important measure of production agriculture, but they don't truly reflect the total contribution of agriculture to the State and county economies. Adding the values of sugar and pineapple processing raises the total to \$585 million for 2000, but even that is still incomplete. For a better understanding of other value added contributions and the direct and indirect business activity associated with agriculture refer to "Accounting for the linkages of Agriculture in Hawaii's Business Economy with an input-output Model: A Final Demand-Based Approach" By University of Hawaii Agricultural Economists Khem R. Sharma, PingSun Leung, and Stuart Nakamoto.

# Cash Receipts of Agricultural Commodities, State of Hawaii, 1970-99



### **Dry Year Impacts Agriculture Sectors**

Despite a few additional days of showers during the year, the absence of consistent rainfall continued to hamper agriculture again in 2000. Although the predominately trade wind weather brought cloudy days and scattered light to moderate showers to all areas, the majority of days were warm and sunny with strong, gusty trade winds. As in the previous year. crops which depend on rainfall failed to make good progress. Such crops included coffee, macadamia nut. avocado, guava, and other fruits. Pastures were also adversely affected by the lack of moisture, since they depended on natural rainfall for growth and rejuvenation. Ranchers continued to reduce their herds due to the deteriorated pastures. Although irrigated crops fared better with the stable weather and consistent water. some farms were adversely affected by both mandatory and voluntary water conservation measures implemented during the year. Despite the increase in moist periods over the previous year, the overall condition of the State was still dry, especially the leeward sections of Maui and Hawaii islands.

### January-April

The first two weeks in January were fair to good for agriculture. Days were mostly sunny to partly cloudy with light to moderate showers. Towards the end of the third week, a shear line brought dark clouds and heavy showers to the islands; followed by strong winds which further hindered field operations and damaged crops. The rains continued into the fourth week and caused some flooding in fields that were already saturated by

the previous week's rain. Weather became sunnier in February with less rain, giving farmers a chance to catch up on field activities. Despite the absence of significant rainfall, the sunny days, cool nights, and gentle winds, along with regular irrigation enhanced crop progress. March brought more sunny, dry weather which benefitted most crops. However, the prolonged dry spell caused growing concern among farmers and water officials, and water restrictions were issued. Trade wind showers falling during the end of the month brought some relief, but more rain was needed. A cold front from the northwest brought much needed rain in early April. The heavy showers hit Kauai with 4 inches of rain and moved down the island chain, dropping about 3 inches on many windward areas. Considerably lighter rains fell on leeward areas, which remained relatively dry throughout the month. Gusty winds early in the month hampered spraying and irrigation as well as causing leaf and fruit damage. A decrease in winds and shower activity created favorable weather for the rest of the month.

#### May-September

The first half of May experienced gentle trade winds, light windward showers, and longer days with warmer temperatures. The remainder of the month received generally dry weather, especially in the leeward areas. Increased spraying and irrigation was necessary to maintain crop progress. Pastures and non-irrigated orchards continued to feel the adverse effects of lack of moisture. Dry, sunny

conditions marked the beginning of summer in June. Irrigated crops made fair to good progress, while pastures and non-irrigated crops remained in fair to poor condition. Light, scattered showers brought some relief, but additional rainfall was needed to replenish soil moisture. Summer rains in July brought some relief, but more rainfall was needed. Temperatures climbed into the upper 80's; occasionally reaching 90 degrees F. The remnants of Hurricanes Gilma and Hector brought some moderate to heavy showers in late August to central Oahu and windward sections of Hawaii. Leeward areas remained dry.

#### October-December

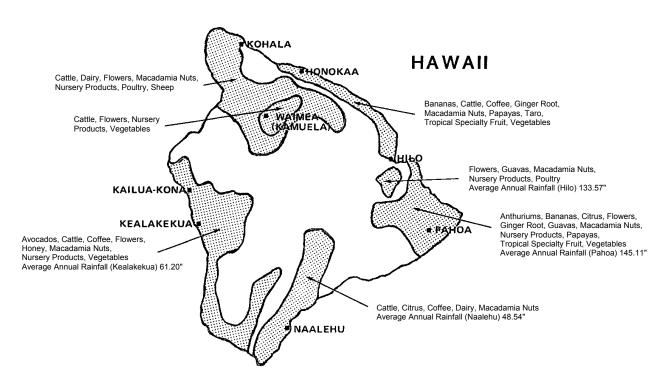
The record thunderstorm on the Big Island punctuated the rainy season on November 1 and 2. Nearly 37 inches of rain fell on windward Hawaii within a 24 hour period. Ka'u macadamia nut orchards suffered the heaviest nut and tree loss due to flooding and erosion. Puna anthurium and tropical flower growers reported 30-50 percent losses due to flooding. The flood waters also damaged roads, green houses, and irrigation systems. Livestock losses of goats and some cattle were reported along with damage to barns, warehouses, and other structures. Control measures were increased to control plant diseases stimulated by the wet conditions. On a positive note, the rain brought much needed moisture to the parched areas of Kona, South Kohala, Maui, and Molokai. The remainder of the year ended with generally fair weather; leeward areas returned to their dry condition.

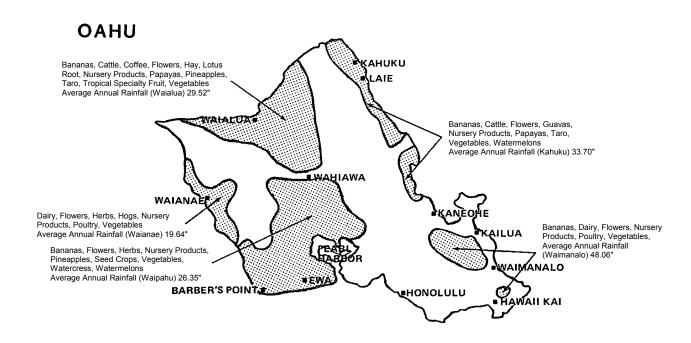
	WEAT	HER:	Pre	cipita	tion,	selec	ted s	tatior	ıs, St	ate o	f Haw	aii, 2	000		
STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
ISLAND OF HAWAII															
Hilo International Airport	Normal 2000	9.1 17.87	12.9 .52	13.7 5.81	12.9 7.25	10.0 3.36	6.6 8.19	9.5 13.16	10.9 10.54	7.4 9.20	11.0 17.65	13.8 45.90	15.8 4.59	133.6 144.04	107.8
Kamuela (HI86)	Normal 2000	6.6 6.07	6.0 .24	7.9 1.14	6.9 4.31	4.0 1.81	2.2 2.40	3.7 1.68	4.1 2.75	2.2 1.36	3.3 4.19	5.8 4.18	7.3 .40	60.0 30.53	50.9
Kealakekua (HI84)	Normal 2000	4.7 1.54	3.4 .05	5.6 1.97	6.2 1.82	7.7 3.42	8.2 6.85	8.7 4.17	8.3 2.57	8.2 2.22	6.2 3.05	4.4 5.54	3.4 .19	75.0 33.39	44.5
Laupahoehoe (HI80)	Normal 2000	13.5 21.00	13.2 .10	19.5 5.00	18.9 13.04	11.7 2.76	6.2 3.67	10.0 7.55	12.4 13.70	6.9 6.86	9.3 11.98	13.6 22.62	14.8 1.67	150.0 109.95	73.3
Pahala (HI85)	Normal 2000	7.7 1.06	6.1 1.05	6.3 4.60	5.0 .04	3.8 .66	2.2 1.60	2.1 1.12	3.3 3.86	3.4 5.60	4.2 2.59	5.5 28.36	5.4 .24	55.0 50.78	92.3
Pahoa (HI83)	Normal 2000	13.9 16.57	10.9 .75	14.7 5.79	13.9 11.06	10.5 3.08	7.1 9.20	9.8 12.42	10.6 8.31	9.2 5.22	11.5 14.06	13.3 39.52	14.6 5.48	140.0 131.46	93.9
ISLAND OF KAUAI															
Anahola (HI48)	Normal 2000	6.8 3.87	4.4 .18	6.0 1.62	4.6 1.84	3.2 .05	1.6 1.70	2.5 1.97	2.5 .42	2.0 2.12	5.1 .79	5.4 1.08	5.9 4.35	50.0 19.99	40.0
Hanalei (HI45)	Normal 2000	11.3 10.10	10.1 .61	14.0 4.71	12.7 10.72	8.1 1.29	5.3 5.87	8.6 10.59	6.3 6.93	4.7 3.29	7.0 5.82	12.2 5.34	9.7 9.19	110.0 74.46	67.7
Omao (HI51)	Normal 2000	6.9 6.21	4.5 .60	5.5 2.84	5.2 7.32	4.2 .68	3.4 2.59	4.7 2.82	4.6 3.18	3.7 3.22	4.7 2.70	5.9 4.52	6.7 .93	60.0 37.61	62.7
ISLAND OF MAUI															
Hana (HI61)	Normal 2000	9.5 6.33	6.8 .61	9.5 2.53	9.0 3.79	6.2	3.8 3.96	5.6 6.27	5.6 8.92	5.4 7.01	7.0 15.55	8.7 16.01	6.1 1.98	83.2 72.96	87.7
Kula (HI65)	Normal 2000	4.9 1.19	3.7 0	2.8 .87	2.8 .36	2.1 .08	1.1 1.84	1.4 .06	1.9 .91	2.0 1.02	1.4 .75	2.5 4.77	3.4 .10	30.0 11.95	39.8
Wailuku (HI66)	Normal 2000	5.2 2.21	3.8 .12	3.6 .96	3.0 1.69	1.2 .01	.4 .21	.6 .37	.7 .95	.6 .75	1.7 .87	2.9 4.13	4.3 .23	28.0 12.50	44.6
ISLAND OF OAHU															
Kahuku (HI09)	Normal 2000	6.3 2.45	4.2 .30	5.3 1.11	4.0 2.44	2.5 .90	1.8 1.38	2.2 2.56	2.6 1.13	2.2 2.86	4.0 3.37	4.6 2.34	5.3 1.35	45.0 22.19	49.3
Waialua (HI04)	Normal 2000	5.6 1.65	3.9 .30	3.8 1.48	2.8 1.48	1.7 .47	.9 2.09	1.3 .64	.8 .40	1.1 .48	2.7 .57	4.2 2.21	5.0 .71	33.8 12.48	36.9
Waianae (HI17)	Normal 2000	3.8 .16	2.3 .02	2.5 .18	1.6 .16	.7 .06	.3 .17	.3 .16	.7 .12	.7 .54	1.8 .27	2.0 1.47	3.3 .16	20.0 3.47	17.4
Waimanalo (HI13)	Normal 2000	8.1 2.48	4.9 .29	5.6 3.33	4.9 1.83	3.1 .24	1.5 .62	1.7 .70	2.0 1.16	1.8 2.54	4.3 2.45	4.9 2.87	7.2 .95	50.0 19.46	38.9

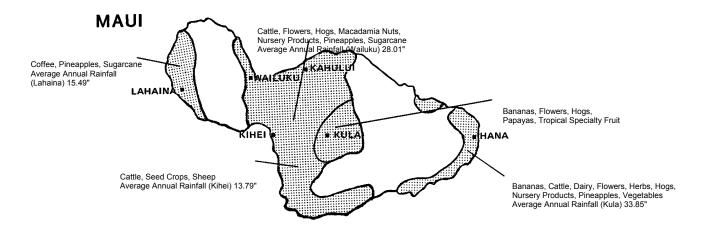
<sup>-- =</sup> Missing data; incomplete.

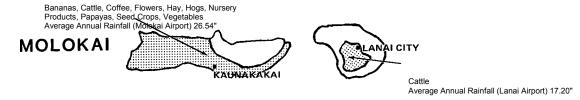
Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gages, and those data have not been quality controlled to date, and therefore is not certified by the National Weather Service.

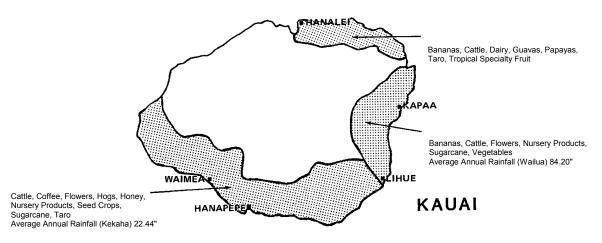
# MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2000

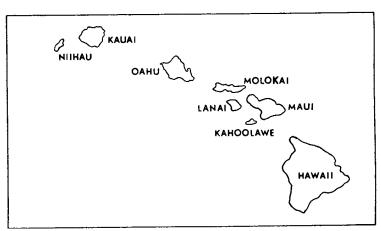












### Top 20 commodities, **State of Hawaii, 1999-2000**

### Farm values, State of Hawaii, 1981-2000

Commodity <sup>1</sup>	Ra	nk		ue of uction	Year	Sugar (unprocessed	Pineapples (fresh	Diversified	Total
•	1999	2000	1999	2000		cane)	equivalent)	agriculture 1	
	Nun	nber	1,000	dollars			1,000 dolla	ars	
Pineapples									
(fresh equivalent)	1	1	101,448	101,530	1981	207,500	89,745	192,257	478,502
Sugarcane					1982	230,800	94,364	182,104	507,268
(unprocessed)	2	2	86,800	62,600	1983	266,900	100,376	201,138	568,414
Seed crops	4	3	30,500	35,400	1984	256,200	89,928	204,389	550,517
Macadamia nuts	3	4	37,855	29,500	1985	222,400	90,530	215,719	528,649
Milk	5	5	31,270	28,102	1986	233,800	99,720	231,197	564,717
Coffee	6	6	21,000	23,055	1987	218,000	99,286	240,012	557,298
Cattle	7	7	16,806	19,204	1988	209,900	107,402	256,660	573,962
Papayas	8	8	15,929	16,007	1989	210,300	98,310	276,438	585,048
Eggs	9	9	10,803	10,636	1990	213,800	106,365	275,789	595,954
Bananas	10	10	8,575	10,440	1991	174,900	107,775	268,707	551,382
Ginger root	11	11	8,050	8,910	1992	153,700	102,100	264,427	520,227
Tomatoes	12	12	7,896	8,580	1993	163,000	79,850	271,094	513,944
Algae	13	13	7,883	8,447	1994	160,100	78,890	273,826	512,816
Palms (potted)	16	14	6,306	8,334	1995	127,700	87,360	<sup>2</sup> 291,632	<sup>2</sup> 506,692
Anthuriums	14	15	6,725	7,352	1996	108,100	95,914	<sup>2</sup> 307,329	<sup>2</sup> 511,343
Dracaena (potted)	15	16	6,333	6,648	1997	85,500	91,721	<sup>2</sup> 327,484	<sup>2</sup> 504,705
Dendrobium, pots	17	17	5,640	6,588	1998	87,400	92,776	329,886	510,062
Hogs	18	18	5,072	4,425	1999	86,800	101,448	342,846	531,094
Taro	19	19	3,604	3,710	2000	62,600	101,530	357,279	521,409
Basil	20	20	3,420	3,600	1 Agua	culture included begi	nning 1993.		

NA = Not available.

### Diversified agriculture ranked by value, State of Hawaii, 1999-2000

Commodity	Ra	ank		Value of pro	oduction	Percent of diversified agriculture	
Commodity	1999	2000	1999	2000	Year-to-year percent change	1999	2000
	Nur	nber	1,000	dollars	Pe	ercent	
Flowers and nursery products	1	1	75,725	83,380	+10	22.1	23.3
Vegetables and melons <sup>1</sup>	2	2	56,438	59,761	+6	16.5	16.7
Seed crops	5	3	30,500	35,400	+16	8.9	9.9
Fruits (excluding pineapples)	6	4	28,525	31,364	+10	8.3	8.8
Macadamia nuts	3	5	37,855	29,500	-22	11.0	8.3
Milk	4	6	31,270	28,102	-10	9.1	7.9
Coffee	7	7	21,000	23,055	+10	6.1	6.4
Aquaculture	8	8	18,102	22,170	+22	5.3	6.2
Cattle	9	9	16,806	19,204	+14	4.9	5.4
Eggs	10	10	10,803	10,636	-2	3.2	3.0
Hogs	11	11	5,072	4,425	-13	1.5	1.2
Other livestock and crops			10,750	10,282	-4	3.1	2.9
Total			342,846	357,279	+4	100.0	100.0

<sup>&</sup>lt;sup>1</sup> Includes ginger root and herbs.

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<sup>&</sup>lt;sup>1</sup> Floriculture categories include only growers with total sales of \$10,000 or more.

Aquaculture included beginning 1993.

<sup>&</sup>lt;sup>2</sup> Revised.

SUMMARY: Acreage in crop and total farm acreage, by counties, 1996-2000

			o. op aa.	-	· oago, a			
Year	Sugarcane	Pineapples <sup>1</sup>	Vegetables and melons <sup>2 3</sup>	Fruits (excluding pineapples)	Coffee	Macadamia nuts	All other crops <sup>4</sup>	Total farm acreage ⁵
				1,000 acres				
04-4-6								
State 6	00.0	00.0	2.2	7.4	0.0	00.0	0.4	4.440
1996	68.8	20.0	6.2	7.1	6.6	20.2	8.4	1,440
1997	68.7	19.9	6.5	8.0	7.0	20.2	13.3	1,440
1998	67.6	21.0	6.6	7.6	7.4	20.2	15.9	1,440
1999	67.0 <b>60.0</b>	21.0	8.2 <b>6.4</b>	8.0 <b>7.1</b>	7.7 <b>7.9</b>	19.9 <b>18.4</b>	16.2 <b>15.9</b>	1,440 <b>1,440</b>
2000	60.0	20.7	6.4	7.1	7.9	16.4	15.9	1,440
Countie Hawai								
1996	0	*	2.1	5.3	2.2	7	1.7	870
1997	0	*	2.1	5.6	2.5	7	1.7	870
1998	0	*	2.1	4.8	2.8	7	2.0	870
1999	0	*	2.3	4.9	3.2	7 <b>7</b>	2.3	870
2000	0	*	1.8	4.1	3.3	,	1.9	870
Honoli	ulu							
1996	0	10.7	2.5	.8	7	7	4.0	80
1997	0	10.8	2.9	1.3	7	7	8.3	80
1998	0	11.4	2.8	1.6	7	7	11.0	80
1999	0	11.9	4.3	1.8	7	7	10.9	80
2000	0	9.1	3.1	1.7	7	7	11.0	80
.,								
Kauai	00.5	*			7	7	4.0	000
1996	26.5	*	.1	.8	7	7	1.3	200
1997	25.6	*	.1	.8	7	7	1.6	200
1998 1999	24.7 23.7	*	.1	.9 1.0	7	7	1.0	200
	23.7 <b>23.1</b>	*	.2 <b>.2</b>	1.0 <b>1.0</b>	7	7	1.1	200
2000	23.1		.2	1.0			1.1	200
Maui								
1996	42.3	9.3	1.5	.2	7	7	1.4	290
1997	43.1	9.1	1.4	.3	7	7	1.7	290
1998	42.9	9.6	1.6	.3	7	7	1.9	290
1999	43.3	9.1	1.4	.3	7	7	1.9	290
2000	36.9	11.6	1.3	.3	7	7	1.9	290

<sup>\* =</sup> Less than 50 acres.

<sup>&</sup>lt;sup>1</sup>Land used for pineapple.

<sup>&</sup>lt;sup>2</sup> Harvested acreage.

<sup>&</sup>lt;sup>3</sup> Includes ginger root.

<sup>&</sup>lt;sup>4</sup> Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), flowers, foliage and nursery products. <sup>5</sup> Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.

<sup>&</sup>lt;sup>6</sup> Sum of county estimates may not add to State total due to rounding.

<sup>7</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of crop farms, by counties, 1996-2000

				<del>op iaiiio, by</del>	- ooanto			
Year	Sugarcane	Pineapples <sup>1</sup>	Vegetables and melons	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
1996	7	20	950	1,040	560	750	180	690
1997	4	15	1,000	1,043	585	800	160	670
1998	4	15	880	1,515	610	800	180	745
1999	4	15	1,020	1,373	650	750	190	765
2000	3	15	580	1,254	670	650	185	755
• "								
Counties Hawaii	<b>S</b> :							
па <b>w</b> ап 1996	4	o	400	720	550	2	100	316
1996	1 0	8 6	440 440	720 704	575	2	85	312
1997	0	0	432	912	600	2	100	355
1996	0	5 5 <b>5</b>	600	805	635	2	100	355 355
		5 <b>5</b>				2		
2000	0	5	250	705	650		85	365
Honolu	lu							
1996	1	2	395	135	2	2	4	211
1997	0	2	400	129	2	2	10	202
1998	Ö	2	280	186	2	2	11	205
1999	0	2	230	174	2	2	12	225
2000	0	2 2 2 2 <b>2</b>	160	162	2	2	15	215
<b></b>								
Kauai	•			400	2	2	- 4	50
1996	3	4	50	100	2	2	54	52
1997	2	3 3 3 <b>3</b>	55	124	2	2	50	50
1998	2	3	54	155	2	2	55	40
1999	2	3	45	143	2	2	65	35
2000	2	3	50	156	-	-	70	35
Maui								
1996	2	6	105	85	2	2	22	111
1997	2	4	105	86	2	2	15	106
1998	2	5	114	262	2	2	14	145
1999	2	5	145	251	2	2	13	150
2000	1	<b>5</b>	1 <b>20</b>	231	2	2	15	140
	s enocialty ninoan		120	<b>4</b> 31			10	140

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<sup>&</sup>lt;sup>1</sup> Includes specialty pineapple.
<sup>2</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of livestock operations and total number of farms, by counties, 1996-2000

Year	Cattle 1	Hogs	Milk	Eggs	Honey	Total (non-duplicated) <sup>2</sup>
				<u> </u>	•	, , , , ,
State						
1996	850	250	60	55	25	5,400
1997	830	250	50	55	23	5,500
1998	830	250	50	55	29	5,500
1999	800	230	50	55	28	5,500
2000	800	230	50	55	33	5,500
Counties:						
Hawaii						
1996	470	80	30	25	16	3,250
1997	480	90	27	25	14	3,300
1998	480	80	27	26	18	3,300
1999	470	70	28	28	14	3,300
2000	470	70	28	28	17	3,300
Honolulu						
1996	60	70	15	19	3	900
1997	50	70	10	19	3	900
1998	50	80	10	17	3	900
1999	60	70	10	15	3	900
2000	60	70	10	15	3	900
Kauai						
1996	130	40	10	4	<sup>3</sup> 9	450
1997	120	30	8	4	<sup>3</sup> 9	500
1998	120	40	8	4	<sup>3</sup> 11	500
1999	100	30	8	4	<sup>3</sup> 14	500
2000	100	30	8	4	<sup>3</sup> 16	500
Maui						
1996	190	60	5	7	3	800
1997	180	60	5 5	7	3	800
1998	180	50	5	8	3	800
1999	170	60	4	8	3	800
2000	170	60	4	8	3	800

<sup>&</sup>lt;sup>1</sup> Includes beef, dairy, and dairy replacement operations.

<sup>&</sup>lt;sup>2</sup> Based on farm definition of \$1,000 or more of agricultural sales.

<sup>&</sup>lt;sup>3</sup> Honolulu and Maui combined with Kauai to avoid disclosure of individual operations.

SUMMARY: Valu	e of crop	sales. b	v counties.	. 1996-2000
---------------	-----------	----------	-------------	-------------

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons	Fruits (excluding pineapples)	Coffee (parchment)
		l	1,000 dollars		L
State					
1996	108,100	95,914	40,672	26,521	20,800
1997	85,500	91,721	<sup>3</sup> 46,271	29,564	28,200
1998	87,400	92,776	51,149	24,530	24,700
1999	86,800	101,448	56,438	28,525	21,000
2000	62,600	101,530	59,761	31,364	23,055
Counties:					
Hawaii					
1996	1,700	*	16,140	20,646	10,810
1997	0	*	<sup>3</sup> 17,435	21,018	16,245
1998	0	*	16,249	14,672	16,100
1999	0	*	18,569	15,546	9,300
2000	0	*	17,910	17,522	15,200
Honolulu					
1996	10,400	68,770	12,554	2,640	4
1997	0	63,426	<sup>3</sup> 16,224	4,814	4
1998	0	64,363	22,098	6,487	4
1999	0	73,123	27,419	8,535	4
2000	0	72,085	30,836	8,985	4
Kauai					
1996	38,800	*	326	2,377	4
1997	31,600	*	850	2,596	4
1998	28,700	*	1,047	2,320	4
1999	26,600	*	931	3,389	4
2000	18,700	*	1,446	3,755	4
Maui					
1996	57,200	27,144	11,652	858	4
1997	53,900	28,295	<sup>3</sup> 11,762	1,136	4
1998	58,700	28,413	11,755	1,051	4
1999	60,200	28,325	9,519	1,056	4
2000	43,900	<b>29,445</b>	9,569	1,102	4
	at end of table.	20,770	0,000	1,102	Conti

SUMMARY: Value of crop sales, by counties, 1996-2000 -- Continued

Year	Macadamia nuts (in-shell)	Taro	Seed crops	Flowers and nursery products <sup>1</sup>	Total crops <sup>2</sup>
	,		1,000 dolla	rs	
state					
1996	44,070	2,793	20,250	68,870	428,671
1997	43,500	2,805	25,150	66,655	<sup>3</sup> 420,306
1998	37,375	3,180	25,300	73,207	420,734
1999	37,855	3,604	30,500	75,725	443,111
2000	29,500	3,710	35,400	83,380	430,961
Counties:					
Hawaii					
1996	4	689	4	34,275	125,428
1997	4	698	4	34,501	<sup>3</sup> 130,737
1998	4	627	4	39,153	121,676
1999	4	632	4	42,462	121,939
2000	4	506	4	47,811	128,379
Honolulu					
	4	4	4	OF 11F	101.045
1996	4	4	4	25,115	121,045
1997	4	4	4	22,131	<sup>3</sup> 109,072
1998	4	4	4	23,743	124,630
1999	4	4	4	21,865	142,407
2000				24,161	149,538
Kauai					
1996	4	1,536	4	1,965	65,754
1997	4	1,657	4	1,804	59,425
1998	4	1,976	4	1,360	49,612
1999	4	2,236	4	1,547	53,390
2000	4	2,520	4	1,461	42,441
Maui					
1996	4	4	4	7,515	116,444
1990	4	4	4	8,219	<sup>3</sup> 121,072
1997	4	4	4	8,951	121,072
1999	4	4	4	9,851	125,375
<b>2000</b>	4	4	4	9,947	110,603

<sup>\* =</sup> Less than \$50,000.

<sup>&</sup>lt;sup>1</sup> Flowers, foliage, and nursery products.

<sup>&</sup>lt;sup>2</sup>Total crop values shown for individual counties are actual. Sum of individual commodities may not add to total. Forage crops' and Forest product's value combined and included in total crop value. <sup>3</sup> Revised.

<sup>&</sup>lt;sup>4</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of livestock sales, total value of crop, livestock sales, aquaculture, and government payments, by counties, 1996-2000

						-		
Year	Cattle <sup>1</sup>	Hogs <sup>1</sup>	Milk	Eggs	Total livestock <sup>2</sup>	Aquaculture	Total crops, livestock and aquaculture <sup>3</sup>	Government payments 4
					1,000 dollars			
State								
State	10 175	6 505	20.224	40.060	67.047	15 655	E44 242	E00
1996	13,175	6,585	29,234	12,963 12,986	67,017	15,655	511,343 5 504 705	580
1997 1998	14,323 16,861	4,902 5,235	29,479 33,293	12,986	67,799 72,708	16,600 16,620	⁵ 504,705 510,062	554 23
1998	16,806	5,233 5,072	33,293	10,803	69,881	18,102	531,094	820
2000	19,204	4,425	28,102	10,603 <b>10,636</b>	68,278	22,170	<b>521,409</b>	11, <b>927</b>
2000	19,204	4,423	20,102	10,030	00,270	22,170	321,409	11,321
Counties:								
Hawaii								
1996	8,168	455	6	6	16,732	13,197	155,357	NA
1997	9,658	404	6	6	19,078	13,380	⁵ 163,195	NA
1998	11,312	420	6	6	20,846	13,383	155,905	NA
1999	12,363	569	6	6	22,531	13,377	157,847	NA
2000	14,138	475	6	6	26,075	16,009	170,463	NA
Honolulu								
	740	2.754	10 120	0.005	25 425	2.055	150 505	NIA
1996 1997	713 581	3,754	19,130 19,204	9,905 10,002	35,435	2,055 2,120	158,535 ⁵ 146,101	NA NA
1997	514	3,036 3,451	21,838	8,193	34,909 36,189	2,120	162,919	NA NA
1999	551	3,431	23,300	7,821	36,917	2,333	181,657	NA NA
2000	<b>556</b>	2,637	19,387	7,509	<b>31,956</b>	<b>2,985</b>	<b>184,479</b>	NA NA
Kauai								
1996	869	879	6	6	4,170	NA	69,924	NA
1997	1,082	454	6	6	4,000	6	63,645	NA
1998	1,394	539	6	6	5,116	6	54,979	NA
1999	1,027	466	6	6	4,543	6	59,731	NA
2000	1,280	378	6	6	3,852	6	48,475	NA
Maui								
1996	3,425	1,497	6	6	10,680	403	127,527	NA
1997	3,003	1,497	6	6	9,813	6	<sup>5</sup> 131,764	NA NA
1998	3,641	825	6	6	10,557	6	136,259	NA NA
1999	2,865	894	6	6	5,890	6	131,859	NA NA
2000	<b>3,230</b>	935	6	6	<b>6,395</b>	6	117,992	NA NA

NA = Not available.

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<sup>&</sup>lt;sup>1</sup> Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

<sup>&</sup>lt;sup>2</sup>Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers, and chickens.

<sup>&</sup>lt;sup>3</sup> Total includes aquaculture beginning 1994.

<sup>&</sup>lt;sup>4</sup> Includes all government payments, such as Agricultural Conservation Program, Cattle Indemnity Payment Program, Dairy Indemnity Payment Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.

<sup>5</sup> Revised.

<sup>&</sup>lt;sup>6</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

### Farm Business Balance Sheet, State of Hawaii, December 31, 1996-99

	1996	1997	1998	1999
		Thousand dollars		
Farm assets	3,627,681	3,552,630	13,766,429	3,643,782
Farm debt <sup>2</sup> Real estate Nonreal estate	233,660 136,728 96,932	250,756 145,236 105,520	264,786 156,906 107,880	257,846 149,929 107,917
Equity	3,394,021	3,301,874	13,501,643	3,385,936
Ratio: Debt/equity Debt/assets	6.9 6.4	7.6 7.1	<sup>1</sup> 7.6 <sup>1</sup> 7.0	7.6 7.1

<sup>&</sup>lt;sup>1</sup>Revised

Source: Economic Research Service, USDA.

# Farm Financial Indicators - value added to the Hawaii economy by the agricultural sector via the production of goods and services, 1996-2000

•		•		
1996	1997	1998	1999	2000
		Thousand dollars		
431,607	423,067	423,008	444,162	443,868
80,739	93,303	87,687	84,254	79,553
33,929	32,801	31,730	33,617	34,552
546,275	549,171	542,425	562,033	557,973
213,712	202,303	195,737	195,356	202,231
45,728	42,685	39,988	35,654	35,562
72,224	69,959	63,983	63,573	70,262
95,760	89,659	91,766	96,129	96,407
41,620	41,575	41,600	40,750	30,344
290,943	305,293	305,088	325,926	325,398
46,357	37,119	37,289	37,599	38,670
244,586	268,174	267,799	288,327	286,728
198,973	191,905	202,289	225,528	222,824
162,891	156,498	165,992	186,274	182,388
16,549	15,976	16,486	19,414	20,210
19,533	19,431	19,811	19,840	20,226
45,613	76,269	65,510	62,799	63,904
	431,607 80,739 33,929 546,275 213,712 45,728 72,224 95,760 41,620 290,943 46,357 244,586 198,973 162,891 16,549 19,533	431,607 423,067 80,739 93,303 33,929 32,801 546,275 549,171 213,712 202,303 45,728 42,685 72,224 69,959 95,760 89,659 41,620 41,575 290,943 305,293 46,357 37,119 244,586 268,174 198,973 191,905 162,891 156,498 16,549 15,976 19,533 19,431	Thousand dollars  431,607 423,067 423,008 80,739 93,303 87,687 33,929 32,801 31,730 546,275 549,171 542,425 213,712 202,303 195,737 45,728 42,685 39,988 72,224 69,959 63,983 95,760 89,659 91,766 41,620 41,575 41,600 290,943 305,293 305,088 46,357 37,119 37,289 244,586 268,174 267,799 198,973 191,905 202,289 162,891 156,498 165,992 16,549 15,976 16,486 19,533 19,431 19,811	Thousand dollars  431,607

<sup>&</sup>lt;sup>1</sup> Final sector output is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the Hawaii economy and is the sum of the income from production earned by all factors-of-production. Net farm income is the farm operators' share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development.

Source: Economic Research Service/USDA. E-Mail: <a href="mailto:rogers@ers.usda.gov">rogers@ers.usda.gov</a>. Revised: July 30, 2001.

<sup>&</sup>lt;sup>2</sup> Excludes debt for nonfarm purposes.

### Record highs and lows for selected items, State of Hawaii

Item	Unit	Record	high	Record	l low	Year estimate
	Offic	Quantity	Year <sup>1</sup>	Quantity	Year 1	started
Anthuriums						
Area in production Total sold Price <sup>2</sup>	1,000 sq. ft. 1,000 dozs. \$/doz.	20,908 2,532 9.09	1983 1980 1997	7,013 216 .73	1964 1959 1966	1964 1959 1959
Avocados						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	330 1,600 60.0	1986 1982 1999	90 400 6.1	1975 1996 1959	1946 1946 1946
Bananas						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	1,550 29,000 41.0	2000 2000 1992	550 4,470 4.6	1977 1983 1946	1946 1946 1946
Cabbage, Head						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	740 15,750 22.0	1947 1989 1995	370 6,800 3.0	1971 1953 1959	1946 1946 1946
Coffee						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	6,800 18,496 390.0	2000 1957 1989	1,650 990 17.8	1985 1982 1946	1946 1946 1946
Foliage, potted (indoor) Sales (value)	\$1,000	16,985	2000	171	1972	1972
Ginger Root						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	360 18,000 92.3	2000 1998 1982	11 352 16.2	1974 1974 1949	1946 1946 1946
Guavas						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	1,040 24,300 15.0	1990 1990 1990	60 1,737 3.1	1957 1957 1956	1955 1955 1955
Macadamia nuts						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	19,300 58,000 90.0	1995 1997 1988	830 630 15.2	1953 1946 1946	1946 1946 1946
Papayas						
Harvested Production Price <sup>2</sup>	Acres 1,000 lbs. ¢/lb.	2,650 80,500 48.9	1985 1984 1997	320 5,525 3.2	1952 1947 1946	1946 1946 1946
See footnotes at end of table.						Continued

### Record highs and lows for selected items, State of Hawaii -- Continued

14	l lait	Record	high	Record	d low	Year
Item	Unit	Quantity	Year <sup>1</sup>	Quantity	Year <sup>1</sup>	estimate started
Pineapples						
Total in crop	Acres	76,700	1957	19,900	1997	1946
Production ·	1,000 tons	1,048	1955	324	1997	1950
Value (farm)	\$1,000	107,775	1991	29,700	1951	1950
Sugar <sup>3</sup>						
Harvested	Acres	145,000	1933	30,300	1998	1909
Yield/acre (sugar)	Tons/acre	12.47	1986	4.81	1910	1909
Production (raw sugar)	1,000 tons	1,234	1966	301	2000	1909
Price <sup>2</sup> (sugar)	\$/Ton	633.00	1974	52.00	1940	1909
Taro						
Harvested	Acres	1,020	1948	320	1980	1946
Production	1,000 lbs.	14,195	1948	5,440	1983	1946
Price <sup>2</sup>	¢/lb.	53.0	2000	3.1	1949	1946
Tomatoes						
Harvested	Acres	600	1950	150	1972	1946
Production	1,000 lbs.	16,800	1999	3,300	1972	1946
Price <sup>2</sup>	¢/lb.	65.0	1990	9.1	1947	1946
<b>Natermelons</b>						
Harvested	Acres	870	1950	125	1979	1946
Production	1,000 lbs.	20,400	1995	1,130	1979	1946
Price <sup>2</sup>	¢/lb.	25.7	1981	6.4	1955	1946
Cattle and calves						
Jan. 1 inventory	Head	249,000	1971	130,000	1946	1946
Production (lv. wgt.)	1,000 lbs.	64,750	1989	25,470	1953	1946
Price <sup>2</sup>	\$/cwt.	57.50	1993	12.30	1946	1946
Hogs and pigs						
Dec. 1 inventory	Head	72,000	1965	26,000	2000	1960
Production (lv. wgt.)	1,000 lbs.	13,159	1978	5,580	2000	1960
Price <sup>2</sup>	\$/cwt.	83.10	1998	29.50	1964	1960
Milk						
Marketings	Million lbs.	157.1	1988	65.2	1946	1946
Production per cow	lbs./cow	14,494	1998	8,750	1960	1960
Price <sup>2</sup>	\$/cwt.	26.50	1999	6.75	1946	1946
Eggs						
Layers Dec. 1	Head	1,037,000	1974	302,000	1950	1950
Production	Million eggs	229.3	1979	120.0	1958	1958
Price <sup>2</sup>	¢/doz.	90.6	1997	39.2	1968	1958

<sup>&</sup>lt;sup>1</sup> In case of a tie, the most recent year was used.

<sup>&</sup>lt;sup>2</sup> Prices are annual or crop-year average.
<sup>3</sup> Primary data source, Hawaiian Sugar Planters' Association.

#### 2000 SUGAR AND SPECIALTY CROP HIGHLIGHTS

#### **SUGAR**

Sugar production for 2000 decreased 18 percent from the previous year to 301,000 tons of 96° raw sugar. Declines in both the acreage for harvest and yield accounted for the lower production. Plantations harvested 2.4 million tons of sugarcane with an average yield of 72.5 tons per acre. Sugar prices during 2000 dipped 12 percent to \$309 per ton of 96° raw sugar, resulting in a value (including molasses) of \$95.9 million, a 27 percent decrease from 1999. Closure of two sugar plantations on Maui and Kauai accounted for the declines in acreage and production.

#### COFFEE

Hawaii farmers harvested a total of 8.7 million pounds of coffee (parchment basis) during the 2000-2001 season, down 13 percent from the previous season. Farm prices across the State averaged \$2.65 per pound (parchment basis) for the 2000-2001 season, up 26 percent from the previous season. Total farm value of the 2000-2001 crop is estimated at \$23.1 million (parchment basis), up 10 percent from the 1999-2000 season. Coffee growers across the State harvested a record high 6,800 acres during the 2000-2001 season, up 6 percent from last season.

Coffee production in Hawaii county totaled 3.8 million pounds (parchment basis) during the 2000-2001 season, up 27 percent from the previous season and the largest harvest of Big Island coffee since the 1970-1971 season's 4.1 million pounds (parchment basis). The 2000-2001 season got off to a late start due to dry weather reducing the initial round of flowering, but a combination of additional acreage and beneficial showers from late spring into summer eventually resulted in a larger than expected crop.

Maui, Honolulu, and Kauai counties combined to produce an estimated 4.9 million pounds (parchment basis) of coffee for the 2000-2001 season, down 30 percent from the previous season's record high, and the lowest total in four seasons. A major factor for the decline in production was the adverse affect that prolonged dry weather has had on some trees.

#### **MACADAMIA NUTS**

Hawaii's 2000-2001 macadamia nut crop is estimated at 50.0 million pounds net, wet-in-shell, 6.5 million pounds below the previous season's crop. The decline was due to adverse weather, lower prices, and less harvested acreage. Weather conditions had mixed effects on orchards depending on location. The Kona area continued to experience dry weather, while early November rains caused flooding in a major Ka'u orchard, resulting in crop and tree losses. Those same rains brought some relief to parched South Kona orchards. Lower prices also caused growers to abandon acreage and to replant with coffee or other crops. Overall yields averaged 2,820 pounds per acre (net, wet in-shell), down 170 pounds from the previous season.

Total acreage in crop dropped 1,500 acres from the previous year to 18,400 acres and the lowest total since the 1984-85 crop year. Harvested acreage also declined by 1,200 acres totaling 17,700 acres. More acreage was abandoned this season due to a large orchard on Maui discontinuing macadamia nut operations.

The farm price for net, wet in-shell macadamia nuts averaged 59.0 cents per pound, down 8.0 cents from the 1999-2000 average. The farm value for the 2000-01 crop is estimated at \$29.5 million, down 22 percent from the previous year. Hawaii growers continued to feel the impact from increased world competition.

# COFFEE: Number of farms, acreage, yield, marketings, price, and value, by counties, 1996-2000

Crop	Forms	Ac	reage	Yield <sup>2</sup>	Markatings 3		Farm prices		Value of	Green	
year 1	Farms	In crop	Harvested	rieid	Marketings <sup>3</sup>	Cherry	Parchment	All <sup>4</sup>	sales	production	
	Number	,	Acres	1,0	000 pounds Cer		Cents per pound		1,000 dollars	1,000 pounds	
State											
1996-97	560	6,600	5,400	1.2	6,400			325.0	20,800	5,000	
1997-98	585	7,000	5,800	1.6	9,400			300.0	28,200	7,720	
1998-99	610	7,400	6,100	1.6	9,500			260.0	24,700	7,600	
1999-00	650	7,700	6,400	1.6	10,000			210.0	21,000	8,100	
2000-01	670	7,900	6,800	1.3	8,700			265.0	23,055	7,000	
Counties:											
Hawaii											
1996-97	550	2,160	1,720	1.3	2,300	105.0	550.0	470.0	10,810	1,850	
1997-98	575	2,490	1,900	1.5	2,850	135.0	700.0	570.0	16,245	2,300	
1998-99	600	2,800	2,170	1.6	3,500	130.0	500.0	460.0	16,100	2,800	
1999-00	635	3,200	2,400	1.2	3,000	70.0	360.0	310.0	9,300	2,400	
2000-01	650	3,350	2,700	1.4	3,800	85.0	425.0	400.0	15,200	3,000	
Honolulu/	Kauai/M	aui ⁵									
1996-97	10	4,440	3,680	1.1	4,100			243.0	9,990	3,150	
1997-98	10	4,510	3,900	1.7	6,550			183.0	11,955	5,420	
1998-99	10	4,600	3,930	1.5	6,000			143.0	8,600	4,800	
1999-00	15	4,500	4,000	1.8	7,000			167.0	11,700	5,700	
2000-01	20	4,550	4,100	1.2	4,900			160.3	7,855	4,000	

<sup>&</sup>lt;sup>1</sup>Coffee harvesting occurs throughout the year in Hawaii. The main harvest normally begins in late summer and extends to the early part of the following year.

<sup>&</sup>lt;sup>2</sup> Average yields based on parchment equivalent marketings and harvested acreage.

<sup>&</sup>lt;sup>3</sup> Expressed in parchment equivalent pounds. Coffee marketed in cherry form was converted to an equivalent parchment weight and added to parchment marketings.

<sup>&</sup>lt;sup>4</sup>Represents an average farm price for parchment equivalent sales. Obtained by dividing farm revenues from the sale of cherry and parchment coffee by total marketings (parchment equivalent basis).

<sup>&</sup>lt;sup>5</sup> Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

### GINGER ROOT

The farm value of Hawaii's 1999-2000 ginger root crop is estimated at a record high \$8.9 million, up 11 percent from the previous season. The record revenue was generated by a 32 percent increase in the average farm price that more than offset a 16 percent decline in production.

At 66.0 cents per pound, the 1999-2000 average farm price was the third consecutive year of increase, but was also well below the record high farm price of 92.3 cents per pound reached during the 1981-1982 season. The previous record high for farm revenue was set during the 1996-1997 season at \$8.1 million.

Hawaii farmers harvested 13.5 million pounds of ginger root during the 1999-2000 season, down 16 percent from the previous season. The main reason for the decline in output was a 23 percent decrease in harvested acreage to 270 acres, the lowest total in four years.

Offsetting some of the decline in harvested acreage was a 9 percent increase in average yields to 50,000 pounds. The improvement in yields was mainly a result of improved weather conditions in the windward area of the Big Island which accounts for most of the State's ginger root.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1996-2000

			•	•	*
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
1996	200	47.0	9,400	87.0	7,050
1997	275	44.0	12,100	75.0	8,107
1998	360	50.0	18,000	40.0	7,200
1999	350	46.0	16,100	50.0	8,050
2000	270	50.0	13,500	66.0	8,910

GINGER ROOT: U.S. imports, 1996-2000

Year	Unground (including fresh)	Ground Sweet		Candied	Total
			1,000 pounds		
1996	30,367	1,220	1,819	1,065	34,471
1997	29,649	854	2,046	1,267	33,816
1998	30,375	563	1,816	1,512	34,265
1999	33,679	669	2,059	2,000	38,406
2000	41,141	825	2,845	2,080	46,890

Source: Foreign Agricultural Trade of the United States, Economic Research Service, U.S. Department of Agriculture.

### FRESH HERBS: Production, price, and value, State of Hawaii, 1996-2000

		Basil			Chinese	Other	All
Year	Sweet (Italian)	Asian	Total	Parsley	parsley (Cilantro)	herbs <sup>1</sup>	herbs
Production	- 1,000 pounds						
1996	510	390	900	200	70	230	1,400
1997	1,100	500	1,600	200	100	300	2,200
1998	1,200	500	1,700	125	75	500	2,400
1999	1,500	600	2,100	190	90	520	2,900
2000	1,600	500	2,100	220	80	500	2,900
Farm price -	dollars per pour	nd					
1996	2.20	1.40		1.70	2.70	2.40	
1997	2.00	1.00		1.75	2.65	2.30	
1998	1.90	.90		2.05	2.70	2.20	
1999	2.00	.70		2.00	2.15	2.70	
2000	2.00	.80		2.00	3.00	2.20	
Farm value	- 1,000 dollars						
1996	1,122	546	1,668	340	189	552	2,749
1997	2,200	500	2,700	350	265	690	4,005
1998	2,280	450	2,730	256	203	1,100	4,289
1999	3,000	420	3,420	380	194	1,404	5,398
2000	3,200	400	3,600	440	240	1,100	5,380

<sup>&</sup>lt;sup>1</sup> Includes spearmint, dill, and other miscellaneous herbs. Also includes small amounts of basil and parsley for which an individual total could not be obtained or published separately in order to avoid disclosure of individual operations.

# SEED CROPS: Number of farms, acreage, outshipments, and value, State of Hawaii, 1996-2000

		Acreage				Total		Value <sup>2</sup>			
Crop year <sup>1</sup>	Farms	Total	Nursery	Seed increase	Grow-out or observation	outshipments of seed	Total	Seed corn	Other seed crops		
	Number			Acres		1,000 pounds		1,000 dollars			
1996-97	6	1,780	625	1,060	95	3,160	20,250	19,030	1,220		
1997-98	8	2,960	1,040	1,830	90	4,050	25,150	24,684	466		
1998-99	8	3,070	1,120	1,870	80	5,000	25,300	24,620	680		
1999-00	8	2,450	1,045	1,300	105	3,500	30,500	28,700	1,800		
2000-01	8	2,750	1,045	1,590	115	4,450	35,400	33,230	2,170		

<sup>&</sup>lt;sup>1</sup> Seed crops are grown year-round in Hawaii. However, the main season is from November to June.

<sup>&</sup>lt;sup>2</sup> Value is based on sales or gross operational budgets.

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by counties, 1996-2000 <sup>1</sup>

		Acr	eage	Yield	per acre	Production	Farm	Value of
Year	Farms <sup>2</sup>	In crop <sup>2</sup>	Harvested for sugar	Sugarcane <sup>3</sup>	Raw sugar 96°	of cane for sugar	price <sup>3</sup>	cane for sugar <sup>4</sup>
	Number	1,000	0 acres		Tons	1,000 tons	Dollars per ton	Million dollars
State								
1996	7	68.8	42.9	82.6	10.18	3,544	30.50	108.1
1997	4	67.8	32.0	91.4	11.15	2,925	29.20	85.5
1998	4	67.6	30.3	90.0	11.66	2,727	32.00	87.4
1999	4	67.0	35.4	81.7	10.38	2,892	30.00	86.8
2000	3	60.0	32.6	72.5	9.23	2,364	26.50	62.6
Counties	s:							
Hawaii								
1996	1	0	1.3	62.3	5.56	81	21.50	1.7
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
Honolu	lu							
1996	1	0	4.8	85.0	8.69	408	25.40	10.4
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
Kauai								
1996	3	26.5	16.7	81.0	9.34	1,353	28.70	38.8
1997	2	25.4	12.3	92.8	10.80	1,141	27.70	31.6
1998	2	24.7	11.3	83.5	10.29	944	30.40	28.7
1999	2	23.7	13.9	66.0	8.08	917	29.00	26.6
2000	2	23.1	14.0	53.6	6.50	751	24.90	18.7
Maui								
1996	2	42.3	20.1	84.7	11.55	1,702	33.60	57.2
1997	2	42.4	19.7	90.6	11.36	1,784	30.20	53.9
1998	2	42.9	19.0	93.8	12.48	1,783	32.90	58.7
1999	2	43.3	21.5	91.9	11.86	1,975	30.50	60.2
2000	1	36.9	18.6	86.7	11.29	1,613	27.20	43.9

<sup>&</sup>lt;sup>1</sup> Primary data source, Hawaii Agricultural Research Center.

<sup>&</sup>lt;sup>2</sup> At end of year.
<sup>3</sup> Yield and farm price may not compute exactly due to rounding.

<sup>&</sup>lt;sup>4</sup> Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by counties, 1996-2000 1

	Mill production		Average retu	ırns received 2	Vali	ue of production	
Year	Raw sugar 96°	Molasses <sup>3</sup>	Raw sugar 96°	Molasses 3	Raw sugar 96°	Molasses <sup>3</sup>	Total
	1,000	0 tons	Dollars	s per ton		- Million dollars	
State							
1996	437	147	368	54.50	160.8	8.0	168.8
1997	357	131	357	38.60	127.5	5.0	132.5
1998	354	118	368	23.50	130.3	2.8	133.1
1999	368	137	352	13.30	129.5	1.8	131.3
2000	301	102	309	27.20	93.1	2.8	95.9
Counties:							
Hawaii							
1996	7	3	350	38.60	2.5	.1	2.6
1997	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
Honolulu							
1996	42	17	363	48.20	15.2	.8	16.0
1997	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0
Kauai							
1996	156	52	370	56.20	57.7	2.9	60.6
1997	133	41	354	39.80	47.1	1.6	48.7
1998	117	33	366	24.50	42.8	.8	43.6
1999	113	38	351	13.70	39.7	.5	40.2
2000	91	31	305	29.60	27.8	.9	28.7
Maui							
1996	232	75	368	55.40	85.4	4.2	89.6
1997	224	90	359	38.00	80.4	3.4	83.8
1998	237	85	369	23.10	87.5	2.0	89.5
1999	255	99	352	13.20	89.8	1.3	91.1
2000	210	71	311	26.20	65.3	1.9	67.2

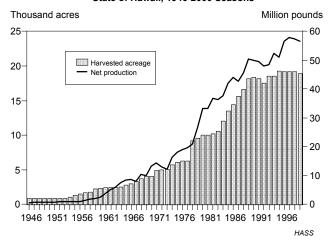
<sup>&</sup>lt;sup>1</sup> Primary data source, Hawaii Agricultural Research Center.
<sup>2</sup> Derived from production and value. State and county prices may not compute exactly due to rounding.
<sup>3</sup> Commercial.

# MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1996-2000 crop years

Crop year 1		Ad	creage	Yield	Produ	ction 4	Avera	ge moisture	Farm pi	rices 4	Farm
	Farms	In crop	Harvested <sup>2</sup>	per acre <sup>3</sup>	Gross 5	Net <sup>6</sup>	Entire crop	Purchases only	Gross <sup>7</sup>	Net	value <sup>8</sup>
	Number	Acres		1,000 pounds		Percent		Cents per pound		1,000 dollars	
1996-97	750	20,200	19,200	2.9	63,000	56,500	18.6	17.9	70.0	78.0	44,070
1997-98	800	20,200	19,200	3.0	65,000	58,000	19.5	19.6	66.9	75.0	43,500
1998-99	800	20,200	19,200	3.0	66,000	57,500	20.5	20.8	57.0	65.0	37,375
1999-00	750	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855
2000-01	650	18,400	17,700	2.8	56,000	50,000	21.0	21.0	52.7	59.0	29,500

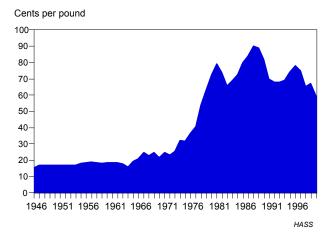
<sup>&</sup>lt;sup>1</sup> Season begins July 1st and ends June 30th of the following year. <sup>2</sup> Called bearing acreage prior to 1993-94 crop year. <sup>3</sup> Net production per bearing acre. <sup>4</sup> Wet in-shell basis, delivered to processors. <sup>5</sup> Gross pounds delivered for processing. <sup>8</sup> Gross pounds delivered for processing less total spoilage. <sup>7</sup> Farm value divided by gross production. <sup>8</sup> Net production multiplied by net farm price.

#### MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-2000 Seasons



#### MACADAMIA NUTS: Net Wet-in-shell Farm Prices, State of Hawaii, 1946-2000 Seasons





Grower sales of Hawaii's flower and nursery products totaled a record \$83.4 million in 2000. Wholesale value for 2000 was 10 percent higher than the \$75.7 million value for 1999. Cut flowers, orchids, foliage, and potted flowering plant categories registered increases in 2000.

Hawaii county, with \$47.8 million in sales, ranked number one in 2000. Honolulu farmers registered sales of \$24.2 million, 11 percent higher than 1999. Maui county sales totaled \$9.9 million, 1 percent higher than last year. Kauai sales, pegged at \$1.5 million, were 6 percent lower than a year ago.

FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by counties, 1996-2000

Year	Cut flowers 1	Orchids <sup>2</sup>	Lei flowers	Foliage <sup>3</sup>	Potted flowering plants	All other nursery products 4	Unspecified sales <sup>5</sup>	Total
					1,000 dollars			
State								
1996	15,101	15,413	3,943	17,580	3,854	11,613	1,366	68,870
1997	13,969	15,479	3,813	16,989	3,751	11,250	1,404	66,655
1998	15,176	15,790	3,485	<sup>6</sup> 15,403	3,892	17,982	1,479	73,207
1999	16,517	17,166	4,051	16,055	4,421	15,978	1,537	75,725
2000	16,796	17,963	3,680	18,195	5,044	20,060	1,642	83,380
Counties	s:							
Hawaii								
1996	11,672	7,230	1,136	11,125	595	1,978	539	34,275
1997	10,939	8,063	1,226	11,124	882	1,726	541	34,501
1998	11,410	9,114	1,022	<sup>6</sup> 11,612	1,676	3,715	604	39,153
1999	12,588	10,015	1,697	12,754	2,011	2,718	679	42,462
2000	13,083	10,113	1,212	15,657	2,120	4,884	742	47,811
Honolu	lu							
1996	941	7,095	1,506	5,554	2,282	7,282	455	25,115
1997	848	6,136	1,332	4,957	1,917	6,562	379	22,131
1998	774	5,839	1,258	<sup>6</sup> 3,331	1,387	10,745	409	23,743
1999	745	5,741	1,210	2,601	1,063	10,119	386	21,865
2000	680	6,578	1,094	1,940	1,609	11,817	443	24,161
Kauai								
1996	117	344	_73	7	7	1,308	123	1,965
1997	76	•	7	7	7	1,555	173	1,804
1998	138	7	7	7	7	1,090	132	1,360
1999	133	411	7	72	118	696	117	1,547
2000	99	245	7	55	194	757	111	1,461
Maui								
1996	2,371	744	1,228	7	7	2,923	249	7,515
1997	2,106	7	•	7	7	5,802	311	8,219
1998	2,854	7	7	7	7	5,763	334	8,951
1999	3,051	999	7 <b>7</b>	628	1,229	3,589	355	9,851
2000	2,934	1,027	,	543	1,121	3,976	346	9,947

<sup>&</sup>lt;sup>1</sup>Cut orchids included in "Orchids" category. <sup>2</sup>Excludes orchids used for lei flowers. <sup>3</sup>Includes potted, cut, and unfinished. <sup>4</sup>Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified. Sum of county estimates may not add to State total due to rounding. <sup>5</sup>Includes grower sales greater than \$999 but less than \$10,000 which were not categorized. <sup>6</sup>Unfinished foliage, 1998 included in "All other nursery products". <sup>7</sup>Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 <sup>1</sup>

	Farms	5:	0 111	Value
Crop	having sales <sup>2</sup>	Production area	Quantity sold	of sales
	Number	1,000 square feet	1,000	1,000 dollars
CUT FLOWERS				
Anthuriums - dozens				
1996	65	11,100	906	7,056
1997	61	11,420	758	6,892
1998	75	11,285	834	6,301
1999	68	11,500	1,019	6,725
2000	64	NA	1,114	7,352
Birds of Paradise - dozens				
1996	29	2,740	102	554
1997	31	2,740	78	486
1998	24	2,285	66	495
1999	25	5,650	86	566
2000	26	NA	101	687
Carnations, miniature - bunches				
1996	10	230	111	390
1997	8	205	91	320
1998	5	115	47	124
1999	4	75	51	131
2000 <sup>3</sup>				
Chrysanthemums, pompon - bund				
1996	4	275	225	479
1997	4	295	177	409
1998	6	265	196	358
1999	4	250	251	588
2000	4	NA	206	415
Ginger, pink - dozens				
1996	54	2,180	76	528
1997	40	1,915	52	402
1998	52	3,075	92	530
1999	47	3,465	82	464
2000	47	NA	81	541
Ginger, red - dozens				
1996	52	2,660	88	444
1997	46	2,350	85	473
1998	63	4,860	142	794
1999	61	3,380	157	748
2000	55	NA	138	754
See footnotes at end of table.				Contin

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# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 1 -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
Gingers, other - dozens				
1996	26	610	13	100
1997	16	575	14	92
1998	30	830	18	144
1999	27	1,085	30	221
2000	26	NA	28	215
Heliconias - dozens				
1996	51	3,920	44	477
1997	47	3,445	40	432
1998	56	5,775	56	664
1999	58	4,860	72	613
2000	56	NA	66	680
Proteas - stems				
1996	31	7,100	1,772	1,233
1997	30	5,625	1,353	1,160
1998	28	8,015	2,996	1,738
1999	33	8,345	2,518	1,677
2000	26	NA	1,933	1,400
Roses 4 - stems				
1996				
1997				
1998				
1999				
2000	9	NA	6,288	2,545
Other cut flowers - dozens				
1996	36	NA	NA	3,840
1997	35	NA	NA	3,303
1998	38	NA	NA	4,028
1999	31	NA	NA	4,784
2000	32	NA	NA	2,207
See footnotes at end of table.				Continue

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 -- Continued

Crop	Farms Crop having sales <sup>2</sup>		Quantity sold	Value of sales	
	Number	1,000 square feet	1,000	1,000 dollars	
ORCHIDS					
Cymbidiums, cut - flowers					
1996	8	280	300	189	
1997	8	275	348	137	
1998	12	315	418	216	
1999	12	335	537	337	
2000	10	NA	509	315	
Dendrobiums, sprays - dozens					
1996	48	3,105	383	2,797	
1997	56	3,505	368	2,549	
1998	59	2,970	419	2,864	
1999	49	2,610	378	2,608	
2000	49	NA	340	2,335	
Oncidiums, sprays - dozens					
1996	28	275	40	386	
1997	28	305	34	356	
1998	32	485	58	580	
1999	31	355	47	463	
2000	37	NA	53	490	
Other orchids, sprays 5 - dozens					
1996	7	NA	NA	37	
1997	5	NA	NA	25	
1998	4	NA	NA	52	
1999	6	NA	NA	28	
2000	10	NA	NA	119	
Dendrobiums, potted 6 - pots					
1996	63	1,200	1,131	5,185	
1997	63	1,295	1,409	6,392	
1998	63	NA	1,107	6,069	
1999	72	NA	942	5,640	
2000	75	NA	1,076	6,588	
Phalaenopsis, potted 7 - pots					
1996					
1997					
1998	20	NA	221	1,178	
1999	21	NA	205	1,169	
2000	24	NA	139	1,012	
Other orchids, potted - pots					
1996	57	1,185	1,553	6,819	
1997	56	1,235	1,295	6,020	
1998	57	NA	951	4,831	
1999	61	NA	1,551	6,921	
2000	75	NA	1,531	7,104	

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# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 1 -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
LEI/INDIVIDUAL BLOOMS				
Carnations - blooms				
1996	11	NA	10,000	538
1997	7	NA	7,500	410
1998	9	NA	6,800	448
1999	7	NA	5,600	397
2000	6	NA	5,300	372
Dendrobiums - blooms				
1996	33	NA	24,700	740
1997	35	NA	24,800	725
1998	28	NA	28,900	855
1999	27	NA	21,700	673
2000	26	NA	19,800	596
Pikake - strands				
1996	4	NA	21.7	86
1997 <sup>8</sup>				
1998	5	NA	55.6	128
1999	7	NA	82.5	222
2000	8	NA	77.8	270
Plumerias - blooms				
1996	12	NA	29,900	717
1997	11	NA	31,800	833
1998	9	NA	23,800	601
1999	10	NA	45,000	931
2000	12	NA	25,700	627
Tuberoses - blooms				
1996	7	NA	8	8
1997	4	NA	8	8
1998	6	NA	19,500	912
1999	6	NA	20,400	959
2000	7	NA	22,100	987
Vanda, Miss Joaquim - blooms				
1996	12	NA	22,200	627
1997	9	NA	22,300	657
1998	9	NA	10,900	292
1999	7	NA	11,300	396
2000	7	NA	13,900	503
Other lei/individual - blooms				
1996	NA	NA	NA	1,235
1997	NA	NA	NA	1,188
1998	NA	NA	NA	249
1999	NA	NA	NA	473
2000	NA	NA	NA	325

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
OLIAGE				
Potted, primarily for indoor or p	atio use <sup>9</sup>			
1996	75	7,495	NA	13,000
1997	60	6,395	NA	12,552
1998	74	5,035	NA	14,617
1999	65	5,265	NA	15,002
2000 <sup>10</sup>		,		,
Potted, dracaena 11				
1996				
1997				
1998				
1999				
2000	31	NA	NA	6,648
Potted, palms <sup>11</sup>				
1996				
1997				
1998				
1999				
2000	43	NA	NA	8,334
Potted, hanging baskets 11				
1996				
1997				
1998				
1999				
2000	16	NA	NA	123
Potted, other 11				
1996				
1997				
1998				
1999				
2000	39	NA	NA	1,880
Potted, primarily for landscape	use			•
1996	62	NA	NA	3,527
1997	62	NA	NA	3,515
1998 <sup>12</sup>	-			- ,
1999 <sup>12</sup>				
2000 <sup>12</sup>				
See footnotes at end of table.				Contin

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 1 -- Continued

	lato of Hawaii,	1000 2000 00110	T	
Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
Ti leaves, cut - leaves				
1996	36	1,480	3,100	218
1997	27	1,225	2,600	153
1998	41	2,585	6,000	412
1999	45	2,575	5,900	468
2000	37	NA	2,100	161
Unfinished foliage stock (for furt	her growing on)			
1996	19	20,000	NA	664
1997	16	17,205	NA	511
1998 <sup>12</sup>		,		
1999 <sup>12</sup>				
2000	12	NA	NA	702
Other greens, cut				
1996	24	NA	NA	171
1997	23	NA	NA	258
1998	35	NA	NA	374
1999	22	NA	NA	224
2000	32	NA	NA	347
POTTED BEDDING/GARDEN				
Impatiens, New Guinea				
. 1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
2000	11	NA	104	129
Impatiens, other				
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
2000	8	NA	169	103
Other bedding/garden				
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
2000	30	NA	NA	2,502
See footnotes at end of table.				Continued

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 -- Continued

Number	1,000 square feet		sales
	1,000 square rest	1,000	1,000 dollars
17	75	70	155
21	190	140	390
15	NA	113	321
24	NA	144	495
28	NA	182	677
8	NA	88	423
14	NA	112	626
18	NA	111	593
5	NA	127	573
	NA	159	677
6	NA	178	738
27	600	243	952
			900
			1,012
	NA		1,233
	NA		1,292
			,
39	NA	NA	2,747
			2,461
			1,563
			1,390
			1,744
	21 15 24 <b>28</b> 8 14 <b>18</b>	21 190 15 NA 24 NA 28 NA NA 14 NA 18 NA 16 NA NA 30 NA 31 NA 31 NA 39 NA 40 NA 27 NA 26 NA	21       190       140         15       NA       113         24       NA       144         28       NA       182         8       NA       182         8       NA       112         18       NA       111         5       NA       127         4       NA       159         6       NA       178         27       600       243         28       590       238         30       NA       263         30       NA       332         31       NA       334         39       NA       NA         40       NA       NA         27       NA       NA         26       NA       NA

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1996-2000 -- Continued

Crop	Farms having sales <sup>2</sup>	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
ORNAMENTALS & TREES				
1996	43	NA	NA	1,741
1997	42	NA	NA	1,561
1998 <sup>12</sup>				,
1999 <sup>12</sup>				
<b>2000</b> 12				
PLANT RENTALS				
1996	44	NA	NA	3,690
1997	37	NA	NA	2,925
1998	45	NA	NA	4,715
1999	32	NA	NA	3,226
2000	37	NA	NA	3,369
LANDSCAPE PLANTS				,
1996 <sup>12</sup>				
1997 <sup>12</sup>				
1998 <sup>12</sup>				
1999 <sup>12</sup>				
2000	96	NA	NA	10,361
OTHER NURSERY PRODUCTS 14				·
1996	96	NA	NA	6,182
1997	88	NA	NA	6,764
1998	NA	NA	NA	13,267
1999	NA	NA	NA	13,113
2000	NA	NA	NA	3,596
UNSPECIFIED SALES 15				,
1996				1,366
1997				1,404
1998				1,479
1999				1,537
2000				1,642
TOTAL				•
1996	690			68,870
1997	670			66,655
1998	745			73,207
1999	765			75,725
2000	755			83,380

NA = Not available. ¹Beginning 1992, includes only producers having total sales of \$10,000 or more. ²Number for each individual flower item is count of those having sales of that item during each year; "Total" is unduplicated count. ³Included with "Other cut flowers". ⁴Prior to 2000, included with "Other cut flowers". ⁵Includes cattleyas, vanda hybrids, phalaenopsis, and paphiopedilums. ⁵Includes in bud/bloom and community pots. <sup>7</sup>Prior to 1998, included with "Other orchids, potted". ⁵Included with "Other lei/individual" to avoid disclosure of individual operations. ⁵Includes hanging baskets. ¹¹ Beginning 2000, separated into "Dracaena", "Palms", "Hanging baskets", and "Other". ¹¹ Prior to 2000, included with "Potted, primarily for indoor or patio use". ¹² Included with "Other nursery products". ¹³ Prior to 1998, included with "Other potted flowering plants". ¹⁴ Includes flowers or nursery products not elsewhere classified. ¹⁵ Beginning 1992, includes sales of growers greater than \$999 but less than \$10,000 which were not categorized.

# FLORICULTURE AND NURSERY PRODUCTS: Number of farms and growing area, by counties, 1996-2000

Year	Farms	Greenhouse 1	Artificial shade	Natural shade	Open field	Total area
	Number	1,000 s	quare feet		Acres	
State						
1996	690	2,820	23,405	10	1,600	2,212
1997	670	2,805	23,885	10	1,535	2,158
1998	745	2,810	24,200	9	2,050	2,679
1999	765	2,910	25,695	15	2,040	2,712
2000	755	3,370	25,930	10	2,115	2,798
Counties:						
Hawaii						
1996	316	1,990	17,815	10	775	1,240
1997	312	2,000	18,805	10	875	1,363
1998	355	1,975	19,620	9	1,155	1,660
1999	355	1,970	21,450	15	1,015	1,568
2000	365	2,560	21,400	8	980	1,538
		_,-,-	,	-		1,223
Honolulu						
1996	211	540	4,910	0	350	475
1997	202	510	4,380	0	310	422
1998	205	480	3,810	0	415	514
1999	225	485	3,360	0	465	553
2000	215	395	3,495	0	490	579
Kauai						
	50	60	245	0	60	60
1996	52 50	60	345 355	0	60 55	69
1997	50 40	60 75	355	0	55 45	65 53
1998	40	75	295	0	45	53
1999	35	90	265	0	85	93
2000	35	70	350	2	130	142
Maui						
1996	111	230	335	0	415	428
1997	106	235	345	Ö	295	308
1998	145	280	475	0	435	452
1999	150	365	620	Ö	475	498
2000	140	345	685	ŏ	515	539

<sup>&</sup>lt;sup>1</sup> Glass or glass substitute structure.

### FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1996-2000 1

Commodity	1996	1997	1998	1999	2000
			1,000 dollars		
Anthuriums, cut	9,705	10,945	9,795	10,685	12,290
Birds of Paradise	650	720	945	710	980
Cymbidiums	115	80	130	110	100
Dendrobiums, sprays	4,110	3,545	3,820	2,875	3,395
Oncidium				270	545
Foliage, cut:					
Ti leaves	635	670	475	400	670
Other cut greens	1,010	885	1,070	845	1,060
Foliage, potted	9,500	10,320	12,220	12,785	13,525
Ginger, red	675	765	810	875	1,455
Gingers, other	605	450	800	890	1,010
Heliconias	800	820	955	970	1,285
Potted orchids:					
Dendrobiums	2,965	3,510	4,360	4,120	3,850
Phalaenopsis				285	655
Other orchids	3,995	5,410	6,485	5,395	6,285
Proteas	1,625	2,025	2,405	2,130	1,930
Unfinished potted foliage stock	70	70	400	355	270
All other flowers and nursery					
products	1,930	1,185	2,510	2,245	2,345
Total	38,390	41,400	47,180	45,945	51,650

<sup>&</sup>lt;sup>1</sup>Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, leis, etc., purchased within the State and hand carried out.

### DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 1996-2000 1

	Indivi	dual	Cut or	sprays Potted plants		Potted plants		Potted plants		
Year	bloss	oms	Cut sp	Jiays	In bud/	bloom	Commu	nity pots	Total	
- Cai	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	value	
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 do	ollars	
1996	24.7	740	383	2,797	1,025	4,595	106	590	8,722	
1997	24.8	725	368	2,549	1,249	5,599	160	793	9,666	
1998	28.9	855	419	2,864	1,025	5,663	82	406	9,788	
1999	21.7	673	378	2,608	816	5,119	126	521	8,921	
2000	19.8	596	340	2,335	948	5,622	128	966	9,519	

<sup>&</sup>lt;sup>1</sup> Includes only producers with total sales of \$10,000 or more.

### 2000 FRUIT HIGHLIGHTS

Hawaii fruit growers harvested 810.9 million pounds of fruit for fresh and processed utilization in 2000, up 3 percent from 1999. Fruit acreage totaled 27,822 acres, 4 percent less than the previous year. Compared with 1999, pineapple, papaya, banana, guava and avocado output were all higher. Lower outputs were experienced by the other fruits. Pineapple continued to account for the majority of 2000's total fruit utilization with 87 percent. The farm value of all fruits totaled \$132.9 million in 2000, an increase of 2 percent from 1999, the highest on record, and mainly due to an increase in the banana value. Farm values were also up for papaya, pineapple, guava, avocado, and other fruits. Honolulu County ranked first for fruit value, with pineapple the top contributor.

#### BANANA

Banana growers harvested a record 29.0 million pounds in 2000, up 18 percent from the previous year and increasing for the fourth consecutive year. Maturing Cavendish acreage on Hawaii and Honolulu Counties was the main reason for heavier yields and higher utilization. Hawaii Apple bananas also experienced

increases in acreage and output. Total acreage statewide as of February 2001 was a record high 1,710 acres, 50 acres less than February last year. Harvested acreage totaled 1,550 in 2000, up 130 acres from a year earlier. Growers planted160 additional acres in 2000. The farm price for all varieties of local bananas averaged 36.0 cents per pound in 2000, up 1.0 cent from the previous year. The farm value reached a record \$10.4 million with higher output and price.

#### PAPAYA

Fresh papaya utilization totaled 50.3 million pounds in 2000, 28 percent higher than last year, accounting for 92 percent of the total papaya utilization. About 52 percent of the fresh sales went to out-of-state destinations. Very dry conditions in non-irrigated orchards during June and July 1999 and again in February and March 2000 reduced flowering. The State's harvested papaya acreage is estimated at 1,650 acres for 2000, 15 percent lower than 1999. From the August 2000 inventory, Kapoho variety made up 40 percent of the State's total acreage. Another 40 percent was planted in Rainbow and Sunup varieties which are resistant to papaya ringspot virus. Sunrise made up 15 percent. In recent years, papaya plantings have increased in areas outside the Island of Hawaii. The result has been an increase in the amount of fresh fruit produced from Kauai and Oahu. Farm prices for fresh sales averaged 31.6 cents per pound in 2000, down 8.6 cents from a year ago.

#### PINEAPPLE

Fruit harvested for fresh sales totaled 244 million pounds in 2000, unchanged from the 1999 total. Fresh sales accounted for 34 percent of the total pineapple production. Fresh pineapples averaged \$585 per ton compared to \$594 from the previous year's price. Processed pineapple utilization totaled 464 million pounds in 2000, up 1 percent from 1999. Pineapples for processing averaged \$130 per ton compared to \$126 for the previous year.

### MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1996-2000 12

Comn	nodity	1996	1997³	1998³	1999	2000	Hawaii market share 2000
				- 1,000 pounds -			Percent
Apples: Avocados:	Inshipments Inshipments Hawaii	12,294 882 400	500	500	15,588 616 600	14,915 825 640	44
Bananas:	Inshipments Hawaii	16,668 13,000	13,700	21,000	8,484 NA	9,055 NA	
Cantaloupe melons:	Inshipments Hawaii <sup>4</sup>	13,347			8,334	8,877	
Grapefruit: Grapes: Honeydew melons:	Inshipments Inshipments Inshipments Hawaii <sup>4</sup>	2,710 7,333 6,133			1,992 7,541 4,125	1,930 8,546 4,448	
Lemons: Limes:	Inshipments Inshipments <sup>5</sup> Hawaii <sup>5</sup>	3,432 590 295	4	4	2,937 881	3,492 <sub>4</sub> 882	
Nectarines: Oranges:	Inshipments Inshipments Hawaii <sup>4</sup>	1,631 16,388			2,053 7,714	2,074 12,109	
Papayas: Pears: Pineapples: Tangerines:	Hawaii <sup>6</sup> Inshipments Hawaii Inshipments Hawaii	13,300 3,403 40,000 1,022 42	13,710 33,400 <sup>4</sup>	14,470 42,000	18,075 4,001 46,800 1,262	24,100 3,944 34,700 <sub>4</sub> 856	
Watermelons:	Inshipments Hawaii	2,784 17,100	16,800	15,800	2,531 11,400	2,804 12,600	82
All other fruits:	Inshipments Hawaii	8,090 2,087	4,683	3,474	8,824 6,556	10,639 5,416	34
Unspecified fruits:	Inshipments 7	3,037			14,000	13,000	
Total:	Inshipments Hawaii All	99,744 86,224 185,968	82,793	97,244	90,883 83,431 174,314	98,396 77,456 175,852	44

NA = Not applicable.

<sup>&</sup>lt;sup>1</sup> Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State. <sup>2</sup> Inshipment data was provided by the Market Analysis and News Branch of the State Department of Agriculture.

<sup>&</sup>lt;sup>3</sup> Inshipment data not available at time of printing.

<sup>&</sup>lt;sup>4</sup> Data not shown separately to avoid disclosure of individual operations but combined and included with "All other fruits".

<sup>&</sup>lt;sup>5</sup> Prior to 1992 included with "All other fruits".

<sup>&</sup>lt;sup>6</sup> Fresh intrastate sales only. Excludes mainland and foreign fresh sales.

<sup>&</sup>lt;sup>7</sup> Inshipment of "Unspecified fruits" were prorated based on the amount of known fruits imported into the State.

TROPICAL SPECIALTY FRUIT: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 1996-2000 1

Cron	Farms <sup>2</sup>	Ad	creage	Numbe	er of trees	Utilization	Farm price 4	Value of
Crop	raims	In crop	Harvested <sup>3</sup>	Total	Bearing	OuiiiZalion	railli plice	sales
	Number		Acres			1,000 pounds	Dollars per pound	1,000 dollars
Cherimoya								
1996	45	25	10	2,200	400	12.9	1.25	16.1
1997 <sup>5</sup>	-		-	,				-
1998 <sup>5</sup>								
1999⁵								
2000 ⁵								
Lychee								
1996⁵								
1997	70	225	75	11,000	2,900	114.3	1.81	206.4
1998	75	245	60	13,200	3,200	157.2	1.96	308.5
1999	80	275	45	12,900	3,100	86.0	2.81	242.0
2000	90	300	50	15,200	3,700	5	5	5
Mango								
1996	65	100	35	7,400	1,200	184.5	.77	142.9
1997 ⁵								
1998 ⁵								
1999 <sup>6</sup>	80	240	85	11,200	4,600	162.0	1.02	166.0
2000 <sup>6</sup>	105	250	100	12,000	5,500	207.0	.93	193.0
Rambutan								
1996	45	80	60	5,400	4,300	81.2	2.95	239.2
1997	45	95	60	6,000	4,300	264.3	2.71	716.6
1998	50	180	70	9,800	4,700	139.2	3.03	421.5
1999	60	205	70	9,400	3,500	113.0	2.88	326.0
2000	70	225	85	9,800	5,000	220.0	2.98	656.0
Specialty pineapple								
1996 ⁵								
1997 <sup>5</sup>								
1998 <sup>7</sup>								
1999 <sup>7</sup>								
2000 <sup>7</sup>								
Starfruit								
1996 <sup>6</sup>	50	35	30	3,500	3,300	276.1	.27	74.5
1997 <sup>6</sup>	35	25	20	2,100	1,900	89.8	.46	41.4
1998	25	25	25	1,900	1,900	37.1	.97	36.0
1999 <sup>6</sup>	25	20	15	1,800	1,700	96.0	.66	63.0
2000	30	20	15	1,800	1,700	107.0	.64	69.0
Other								
1996		340 130 15,700 6,300 439.3		398.3				
1997		305	85	15,000	5,100	681.1		481.3
1998 <sup>6</sup>		350	85	23,900	5,000	376.1		402.9
1999 <sup>6</sup>		170	55	8,900	3,700	189.0		243.0
2000	-	165	60	9,000	3,900	193.0	-	403.0
See footnotes at end of	table.	•						Continue

## TROPICAL SPECIALTY FRUIT: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 1996-2000 -- Continued

Cron	Farms <sup>2</sup>	A	creage	Number	r of trees	Utilization	Farm price ⁴	Value of
Crop	ганны	In crop	Harvested <sup>3</sup>	Total	Bearing	Utilization	raiiii piice	sales
	Number		Acres			1,000 pounds	Dollars per pound	1,000 dollars
Total								
1996	130	580	265	34,200	15,500	994.0		871.0
1997	120	650	240	34,100	14,200	1,149.5		1,445.7
1998	130	800	240	48,800	14,800	709.6		1,168.9
1999	140	910	270	44,200	16,600	646.0		1,040.0
2000	145	960	310	47,800	19,800	727.0		1,321.0

<sup>--=</sup> Not applicable. <sup>1</sup>Tropical specialty fruits include: abiu, atemoya, breadfruit, caimito, canistel, cherimoya, durian, jaboticaba, jackfruit, langsat, longan, loquat, lychee, mango, mangosteen, persimmon, poha, rambutan, rollina, sapodilla, soursop, specialty pineapple, starfruit, white sapote, and other fruits. If not shown separately, then combined and included in "Other" category. <sup>2</sup>A farm may grow more than one type of fruit. Total farms is an unduplicated count; excludes home use. <sup>3</sup>Data series beginning in 1996. <sup>4</sup>Equivalent delivered packing house or processing plant door. Excludes costs of packing and shipping or value added by processing. <sup>5</sup>Data not shown separately to avoid disclosure of individual operations but combined and included with "Other". <sup>6</sup>Production and price include fresh and processed. <sup>7</sup>Specialty pineapple will be discontinued but included in all pineapple totals on page 39.

## TROPICAL SPECIALTY FRUIT: Number of farms, acreage, production, and value, by counties, 1996-2000

		,			
lolond	Forms	A	creage	Litilization	Value of color
Island	Farms	In crop	Harvested 1	- Utilization	Value of sales
	Number		Acres	1,000 pounds	1,000 dollars
State					
1996	130	580	265	994.0	871.0
1997	120	650	240	1,149.5	1,445.7
1998 <sup>2</sup>	130	800	240	709.6	1,168.9
1999	140	910	270	646.0	1,040.0
2000	145	960	310	727.0	1,321.0
Counties:					
Hawaii <sup>3</sup>					
1996	80	270	135	403.0	315.5
1997	80	290	95	4	•
1998	80	315	4	4	4
1999	85	375	110	256.0	397.0
2000	85	405	135	329.0	651.0
Honolulu/Kauai/N	⁄laui ⁵				
1996	50	310	130	591.0	555.5
1997	40	360	145	4	4
1998	50	485	4	4	4
1999³	55	535	160	390.0	643.0
2000 <sup>3</sup>	60	555	175	398.0	670.0

<sup>&</sup>lt;sup>1</sup> Data series beginning in 1996.

<sup>&</sup>lt;sup>2</sup> Specialty pineapple excluded from 1998 totals.

<sup>&</sup>lt;sup>3</sup> Processed fruit included.

<sup>&</sup>lt;sup>4</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

<sup>&</sup>lt;sup>5</sup> Kauai and Maui combined with Honolulu to avoid disclosure of individual operations beginning 1993.

PINEAPPLES: Number of farms, acreage, production, disposition, price, and value, State of Hawaii, 1996-2000 <sup>1</sup>

		Acreage	Production	Dispos	ition	Farm p	rice	Value of
Year	Farms	used for crop	(fresh weight)	Processed (fresh weight)	Fresh market	Processed <sup>2</sup>	Fresh market <sup>3</sup>	production (fresh weight)
	Number	1,000 acres		1,000 tons		Dollars pe	1,000 dollars	
1996 1997	15 15	20.0 19.9	347 324	232 221	115 103	117 127	598 618	95,914 91,721
1998	15	21.0	332	221	111	131	575	92,776
1999	15	21.0	352	230	122	126	594	101,448
2000	15	20.7	354	232	122	130	585	101,530

<sup>&</sup>lt;sup>1</sup> Includes specialty pineapple.

### PINEAPPLES: Fresh market sales, processed value, and total value, State of Hawaii, 1996-2000

Year	Fresh mar	ket sales	Processor value of canned fruit	Total value: Fresh market
i eai	Quantity 1	Value <sup>2</sup>	and juice production <sup>3</sup>	and processed <sup>4</sup>
	1,000 tons		Million dollars	
1996	115	68.8	78.2	147.0
1997	103	63.7	73.0	136.7
1998	111	63.8	81.3	145.1
1999	122	72.5	72.3	144.8
2000	122	71.4	60.8	132.2

<sup>&</sup>lt;sup>1</sup> Market Analysis and News Branch of the State Department of Agriculture. Includes all destinations.

#### PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
							1,000 pour	nds					_
1996	16,211	15,682	19,437	15,894	16,460	14,827	19,168	15,645	12,166	16,166	15,249	13,187	190,092
1997	12,892	12,771	18,014	12,686	15,916	15,403	19,096	11,882	12,919	14,609	12,647	13,765	172,600
1998	12,109	11,237	17,451	13,841	13,248	14,618	18,926	16,245	12,498	16,518	15,532	17,695	179,918
1999	13,564	12,237	18,052	16,603	18,477	18,805	20,645	13,305	15,929	16,490	17,700	15,388	197,195
2000	14,692	14,022	18,769	21,214	21,773	22,782	17,877	17,040	13,197	16,451	16,718	14,806	209,341

Source of outshipment data: Market Analysis and News Branch of the State Department of Agriculture.

<sup>&</sup>lt;sup>2</sup> Estimate to reflect value of fresh fruit delivered processing plant door based on average contract prices of independent growers.

<sup>&</sup>lt;sup>3</sup> Estimate to reflect value at wholesale establishments for local sales and shipper dock for mainland and foreign sales.

<sup>&</sup>lt;sup>2</sup> Value FAS shipping point for outshipments, delivered wholesalers local sales.

<sup>&</sup>lt;sup>3</sup> Value of canned fruit and juices and by-product shipped out-of-State and sold within State.

<sup>&</sup>lt;sup>4</sup> Pineapple Growers Association of Hawaii.

# AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1996-2000

Year	Farms	Acre	age 1	Yield per acre <sup>2</sup>	Production	Farm price	Value of
	i aiiiis	In crop	Bearing	Tielu pei acre	Production	r ann price	sales
	Number	Ac	res	1,000 po	unds	Cents per pound	1,000 dollars
1996	110	330	180	2.2	400	53.5	214
1997	95	340	250	2.0	500	53.0	265
1998	95	330	240	2.1	500	52.0	260
1999	120	360	230	2.6	600	60.0	360
2000	130	360	220	2.9	640	58.0	371

<sup>&</sup>lt;sup>1</sup> At end of year.

BANANAS: Distribution of harvested acreage by yield, State of Hawaii, 1999-2000

				Var	iety				
Stratum:		Hawai	i Apple 1			Cavendish <sup>2</sup>			
Yield per harvested acre	Harvest	ed acres	Averag	Average yield		Harvested acres		e yield	
	1999	2000	1999	2000	1999	2000	1999	2000	
Pounds	Pounds							Pounds	
Over 30,000	3	3	3	3	3	509	3	30,100	
20,001 - 30,000	<sup>4</sup> 50	<sup>4</sup> 47	422,400	<sup>4</sup> 21,500	<sup>4</sup> 529	363	427,300	20,400	
10,001 - 20,000	150	217	14,500	13,500	301	50	16,200	14,200	
10,000 and Under	324	346	5,200	4,900	60	18	5,200	4,800	
Overall Average Yield	530	610	9,200	9,000	890	940	22,000	25,000	

<sup>&</sup>lt;sup>1</sup> Includes Dwarf Brazilian and Apple bananas, formerly called Brazilian.

<sup>&</sup>lt;sup>2</sup> Production divided by bearing acreage.

<sup>&</sup>lt;sup>2</sup> Includes Chinese, Williams, Valery, and Grand Nain. Bluefields, Dwarf Bluefields, and other bananas are included with Cavendish.

<sup>&</sup>lt;sup>3</sup> Data not shown separately but combined and included in "20,001-30,000" pounds per acre.

<sup>&</sup>lt;sup>4</sup> Includes "Over 30,000" pounds per acre.

BANANAS: Acreage by variety, State of Hawaii,1996-2000<sup>1</sup>

Vaar	Variety							
Year	Hawaii Apple <sup>2</sup>	Cavendish <sup>3</sup>						
1996	560	680						
1997	540	1,050						
1998	660	940						
1999	700	1,060						
2000	735	975						

<sup>&</sup>lt;sup>1</sup>As of February following year, i.e., acreage data shown for 2000 is as of February 1, 2001. <sup>2</sup>Includes Dwarf Brazilian and Apple bananas, formerly called Brazilian. <sup>3</sup>Includes Chinese, Williams, Valery, and Grand Nain. Bluefields, Dwarf Bluefields, and other bananas are also included with Cavendish.

BANANAS: Number of farms, acreage, yield, production, price, and value, by counties, 1996-2000

_		Ac	reage	Yield per	Freeh	1	\/al of
Year	Farms	In crop <sup>1</sup>	Harvested <sup>2</sup>	acre (harvested)	Fresh utilization	Farm price	Value of sales
	Number		Acres	1,000 p	ounds	Cents per pound	1,000 dollars
State <sup>3</sup>	Number		10/63	1,000 μ	ounus	Cents per pound	1,000 dollars
1996	170	1,240	960	13.5	13,000	40.0	5,200
1990	170	1,590	950	14.4	13,700	38.0	5,206
1998	200	1,600	1,420	14.8	21,000	35.0	7,350
1999	210	1,760	1,420	17.3	24,500	35.0	8,575
2000	210	1,71 <b>0</b>	1,550	18.7	<b>29,000</b>	<b>36.0</b>	10,440
Counties		1,7 10	1,000	10.7	20,000	00.0	10,440
Hawaii	1						
1996	41	695	495	17.0	8,400	35.5	2,982
1997	48	840	550	17.8	9,800	34.0	3,352
1998	50	740	665	16.7	11,100	31.0	3,430
1999	45	830	650	18.2	11,800	32.5	3,819
2000	45	815	735	19.3	14,200	34.5	4,927
Honolul	и				·		·
1996	78	435	380	8.4	3,200	48.5	1,555
1997	75	635	320	8.6	2,750	46.5	1,276
1998	75	715	655	13.1	8,600	38.0	3,268
1999	85	785	670	16.9	11,300	35.5	4,039
2000	80	760	705	19.1	13,500	35.5	4,826
Kauai							
1996	29	55	45	11.3	510	42.5	218
1997	28	40	35	12.9	450	43.5	196
1998	40	60	50	10.0	500	42.5	212
1999	40	60	50	10.2	510	42.5	218
2000	45	60	50	11.0	550	43.0	236
Maui							
1996	22	55	40	22.3	890	50.0	445
1997	19	75	45	15.6	700	54.5	382
1998	35	85	50	16.0	800	55.0	440
1999	40	85	50	17.8	890	56.0	499
2000	40	75	60	12.5	750	60.0	451

<sup>&</sup>lt;sup>1</sup> As of February following year, i.e., acreage data shown for 2000 is as of February 1, 2001. <sup>2</sup> Acreage reflects quarterly average during the year. <sup>3</sup> Sum of county estimates may not add to State total due to rounding.

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BANANAS: Production, acreage, and price, State of Hawaii, 1996-2000

						Fre	esh utili	zation						А	creage
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested
							1,000 po	unds							Acres
All Ba	nanas														
1996	1,175	840	825	825	816	862	1,200	1,544	1,281	1,442	1,264	926	13,000	1,240	960
1997	1,021	840	764	802	990	1,118	1,362	1,419	1,230	1,432	1,365	1,357	13,700	1,590	950
1998	1,196	1,096	1,261	1,359	1,516	1,943	2,163	2,117	2,112	2,095	2,063	2,079	21,000	1,600	1,420
1999	1,739	1,743	1,968	1,714	2,124	2,090	2,323	2,500	2,363	2,151	1,820	1,965	24,500	1,760	1,420
2000	2,148	2,221	2,583	2,371	2,442	2,620	2,553	2,350	2,638	2,465	2,603	2,006	29,000	1,710	1,550
Hawai	ii Apple	e <sup>1</sup>													
1996	333	272	254	270	322	300	354	438	427	487	424	319	4,200	560	495
1997	369	327	342	303	311	279	303	364	326	364	349	363	4,000	540	445
1998	344	345	388	367	308	281	322	367	385	390	397	506	4,400	660	510
1999	487	442	418	392	398	402	360	386	390	429	403	393	4,900	700	530
2000	410	438	496	479	407	447	440	445	454	458	518	508	5,500	735	610
Caver	ıdish ²														
1996	842	568	571	555	494	562	846	1,106	854	955	840	607	8,800	680	465
1997	652	513	422	499	679	839	1,059	1,055	904	1,068	1,016	994	9,700	1,050	505
1998	852	751	873	992	1,208	1,662	1,841	1,750	1,727	1,705	1,666	1,573	16,600	940	910
1999 <b>2000</b>	1,252 <b>1,738</b>	1,301 <b>1,783</b>	1,550 <b>2,087</b>	1,322 <b>1,892</b>	1,726 <b>2,035</b>	1,688 <b>2,173</b>	1,963 <b>2,113</b>	2,114 <b>1,905</b>	1,973 <b>2,184</b>	1,722 <b>2,007</b>	1,417 <b>2,085</b>	1,572 <b>1,498</b>	19,600 <b>23,500</b>	1,060 <b>975</b>	890 <b>940</b>
2000	1,730	1,703	2,007	1,092	2,035	2,173	2,113	1,905	2,104	2,007	2,005	1,490	23,500	9/5	340
						FAR	M PRICE	FOR FF	RESH MA	RKET					
								Cents p	er pound						
All Ba	nanas	3													
1996	39.5	41.0	41.0	41.0	42.5	41.5	39.5	39.0	40.0	39.0	39.0	39.5	40.0		
1997	44.0		45.0	43.0	38.0	36.0	34.5	35.5	36.0	35.5	34.5	34.5	38.0		
1998	36.0		37.5	38.0	37.5	35.5	34.5	33.5	33.0	32.5	33.5	34.5	35.0		
1999	37.0		38.0	37.5	35.0	33.5	32.5	33.0	33.0	33.5	36.5	35.0	35.0		
2000	36.0	38.5	37.5	39.0	37.5	34.5	33.0	32.0	33.0	36.5	36.5	38.0	36.0		
Hawai	ii Apple	e <sup>1</sup>													
1996	50.5		52.0	52.0	51.5	51.5	50.0	49.5	49.5	49.0	49.5	50.0	50.5		
1997	48.5		49.5	50.0	50.5	52.0	51.5	51.0	51.0	50.0	50.0	49.5	50.0		
1998	49.5		49.0	49.0	50.0	53.0	53.0	51.0	50.5	50.0	49.5		50.0		
1999	48.0		47.0	47.0	47.5	47.5	47.5	48.0	47.5	47.5	48.0	48.0	47.5		
2000	46.5	46.5	46.0	47.5	47.0	47.0	47.0	47.5	47.5	47.0	46.5	47.5	47.0		
Caver	ndish <sup>4</sup>														
1996	34.5	36.0	36.0	36.0	36.5	36.0	35.5	35.0	35.0	33.5	34.0	34.0	35.0		
1997	38.0	41.5	42.0	42.0	38.5	32.0	30.5	29.5	30.0	30.0	30.0	29.0	33.0		
1998	30.0		32.5	33.5	34.0	32.5	31.0		28.5	28.5	29.5	30.0	30.5		
1999	32.5		35.5	34.5	31.5	30.0	29.5		30.0	29.5	33.0	31.5	31.5		
2000	33.5		35.5	nnle han	35.5	31.5	30.0	28.0	30.0	34.0	34.0	34.5	33.0		

<sup>&</sup>lt;sup>1</sup> Includes Dwarf Brazilian and Apple bananas, formerly called Brazilian.
<sup>2</sup> Includes Chinese, Williams, Valery, and Grand Nain. Bluefields, Dwarf Bluefields, and other bananas are combined with Cavendish beginning 1993. Previous publications provide a breakdown for Bluefields. 
<sup>3</sup> Includes Bluefields, Dwarf Bluefields, and other bananas.

<sup>&</sup>lt;sup>4</sup> Includes Chinese, Williams, Valery, and Grand Nain.

PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by counties, 1996-2000 <sup>1</sup>

In crop   Harvested   acre   tion   Fresh   Processed   Fresh   Processed   All   production   Number   Acres   1,000 pounds   1,000 pounds	Year	Farms <sup>2</sup>	Acı	eage <sup>2</sup>	Yield per	Utilized produc-	Utili	ization	P	rice per pound	d	Value of utilized
State	ı cai	i aiiiis	In crop	Harvested	acre 3		Fresh	Processed	Fresh	Processed 4	All	
1996   281   3,610   1,835   22.8   41,800   37,800   4,000   44.8   3.0   40.8   17,054     1997   241   4,055   1,985   19.5   38,800   35,700   3,100   52.9   3.0   48.9   18,978     1998   262   3,555   2,120   18.8   39,900   35,600   4,300   35.0   3.0   31.6   12,599     1999   222   3,500   1,940   21.9   42,400   39,400   3,000   40.2   3.0   37.6   15,929     2000   236   2,845   1,650   33.0   54,500   50,250   4,250   31.6   3.0   29.4   16,007      Counties:		Number	<i>j</i>	Acres		1,00	0 pounds			Cents		1,000 dollars
1997 241 4,055 1,985 1,985 1,985 38,800 35,700 3,100 52.9 3.0 48.9 18,978 1998 262 3,555 2,120 18.8 39,900 35,600 4,300 35.0 3.0 31.6 12,589 1999 222 3,500 1,940 21.9 42,400 39,400 3,000 40.2 3.0 37.6 15,929 2000 236 2,845 1,650 33.0 54,500 50,250 4,250 31.6 3.0 29.4 16,007     Counties:	State											
1998   262   3,555   2,120   18.8   39,900   35,600   4,300   35.0   3.0   31.6   12,588     1999   222   3,500   1,940   21.9   42,400   39,400   3,000   40.2   3.0   37.6   15,929     2000   236   2,845   1,650   33.0   54,500   50,250   4,250   31.6   3.0   29.4   16,007     Countles:	1996	281	3,610	1,835	22.8	41,800	37,800	4,000	44.8	3.0	40.8	17,054
1999 222 3,500 1,940 21.9 42,400 39,400 3,000 40.2 3.0 37.6 15,929 2000 236 2,845 1,650 33.0 54,500 50,250 4,250 31.6 3.0 29.4 16,007    Counties:  Hawaii  1996 240 3,230 1,660 23.0 38,195 34,195 54,000 44.3 40.0 15,281 1997 200 3,385 1,615 19.1 30,910 27,810 53,100 51.8 46.9 14,501 1998 208 2,715 1,640 18.9 31,050 26,750 54,300 31.1 27.2 8,439 1999 168 2,595 1,415 20.1 28,455 25,455 53,000 36.3 32.8 9,327 2000 174 2,005 1,130 33.8 38,200 33,950 54,250 29.7 26.8 10,223    Honolulu  1996 21 215 80 22.9 1,830 1,830 0 51.2 51.2 937 1997 20 425 255 22.3 5,695 5,695 0 59.4 59.4 3,383 1998 23 525 300 18.3 5,485 5,485 0 55.1 55.1 3,022 1999 22 550 335 24.7 8,265 8,265 0 55.1 55.1 55.1 3,022 2000 34 510 335 34.4 11,515 11,515 0 34.7 34.7 3,996    Kauai  1996 15 135 75 17.3 1,295 1,295 5 647.1 647.1 647.1 6836 1997 17 185 80 16.0 1,280 1,280 5 649.8 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 5 63.3 5 63.5 63.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 6 63.3 5 63.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 6 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 5 63.5 6 63.5 6 61,28 1997 4 60 35 26.1 915 915 0 6 6 6 6 6 6 6 1999 10 70 45 28.9 1,300 1,300 0 6 6 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1997	241	4,055	1,985	19.5	38,800	35,700	3,100		3.0	48.9	18,978
Counties:         Hawaii         1996         240         3,230         1,660         23.0         38,195         34,195         54,000         4,250         31.6         3.0         29.4         16,007           Counties:           Hawaii           1996         240         3,230         1,660         23.0         38,195         34,195         54,000         44.3         40.0         15,281           1997         200         3,385         1,615         19.1         30,910         27,810         53,100         51.8         46.9         14,501           1998         208         2,715         1,640         18.9         31,050         26,750         54,300         31.1         27.2         8,439           1999         188         2,595         1,415         20.1         28,455         25,455         53,000         36.3         32.8         9,327           Honolulu           1996         21         215         80         22.9         1,830         1,830         0         51.2         51.2         937           1997         20         425         255         22.3         5,695         5,695         0 <td>1998</td> <td>262</td> <td>3,555</td> <td>2,120</td> <td>18.8</td> <td>39,900</td> <td>35,600</td> <td>4,300</td> <td>35.0</td> <td>3.0</td> <td>31.6</td> <td>12,589</td>	1998	262	3,555	2,120	18.8	39,900	35,600	4,300	35.0	3.0	31.6	12,589
Counties: Hawaii  1996 240 3,230 1,660 23.0 38,195 34,195 54,000 44.3 40.0 15,281 1997 200 3,385 1,615 19.1 30,910 27,810 53,100 51.8 46.9 14,501 1998 208 2,715 1,640 18.9 31,050 26,750 54,300 31.1 27.2 8,439 1999 168 2,595 1,415 20.1 28,455 25,455 3,000 36.3 32.8 9,327 2000 174 2,005 1,130 33.8 38,200 33,950 4,250 29.7 26.8 10,223  Honolulu  1996 21 215 80 22.9 1,830 1,830 0 51.2 51.2 937 1997 20 425 255 22.3 5,695 5,695 0 59.4 59.4 3,383 1998 23 525 300 18.3 5,485 5,485 0 55.1 55.1 3,022 2000 34 510 335 34.4 11,515 11,515 0 34.7 34.7 3,996  Kauai 1996 15 135 75 17.3 1,295 1,295 5 49.8 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 6 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 647.1 647.1 6836 1997 17 185 80 16.0 1,280 1,280 5 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 6 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 637.4 637.4 61,788  Maui  1996 5 30 20 24.0 480 480 0 6 6 6 6 6 6 6 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 6 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 6 6 6 6 1999 10 70 445 28.9 1,300 1,300 0 6 6 6 6 6 6 1999 10 70 445 20.4 920 920 0 6 6 6 6 6 1999 10 70 445 20.4 920 920 0 6 6 6 6 6 1999 10 70 445 20.4 920 920 0 6 6 6 6 6 6 1999 10 70 445 20.4 920 920 0 6 6 6 6 6 6 6 1999 10 70 445 20.4 920 920 0 6 6 6 6 6 6 6 1999 10 70 445 20.4 920 920 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1999	222	3,500	1,940	21.9	42,400	39,400	3,000	40.2	3.0	37.6	15,929
Hawaii	2000	236	2,845	1,650	33.0	54,500	50,250	4,250	31.6	3.0	29.4	16,007
1996   240   3,230   1,660   23.0   38,195   34,195   \( ^54,000 \)   44.3   40.0   15,281     1997   200   3,385   1,615   19.1   30,910   27,810   \( ^53,100 \)   51.8   46.9   14,501     1998   208   2,715   1,640   18.9   31,050   26,750   \( ^54,300 \)   31.1   27.2   8,439     1999   168   2,595   1,415   20.1   28,455   25,455   \( ^53,000 \)   36.3   32.8   9,327     2000   174   2,005   1,130   33.8   38,200   33,950   \( ^54,250 \)   29.7   26.8   10,223      Honolulu	Countie	es:										
1997 200 3,385 1,615 19.1 30,910 27,810 53,100 51.8 46.9 14,501 1998 208 2,715 1,640 18.9 31,050 26,750 54,300 31.1 27.2 8,439 1999 168 2,595 1,415 20.1 28,455 25,455 53,000 36.3 32.8 9,327 2000 174 2,005 1,130 33.8 38,200 33,950 54,250 29.7 26.8 10,223    Honolulu	Hawai	i										
1998 208 2,715 1,640 18.9 31,050 26,750 54,300 31.1 27.2 8,439 1999 168 2,595 1,415 20.1 28,455 25,455 53,000 36.3 32.8 9,327 2000 174 2,005 1,130 33.8 38,200 33,950 54,250 29.7 26.8 10,223    Honolulu 1996 21 215 80 22.9 1,830 1,830 0 51.2 51.2 937 1997 20 425 255 22.3 5,695 5,695 0 59.4 59.4 3,383 1998 23 525 300 18.3 5,485 5,485 0 55.1 55.1 3,022 1999 22 550 335 24.7 8,265 8,265 0 52.3 52.3 4,322 2000 34 510 335 34.4 11,515 11,515 0 34.7 34.7 3,996    Kauai 1996 15 135 75 17.3 1,295 1,295 5 649.8 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 5 633.5 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 637.4 637.4 61,788    Maui 1996 5 30 20 24.0 480 480 0 6 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 6 1997 4 60 35 26.1 915 915 0 6 6 1997 4 60 35 26.1 915 915 0 6 6 1998 10 70 45 28.9 1,300 1,300 0 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1996	240	3,230	1,660	23.0	38,195	34,195	<sup>5</sup> 4,000	44.3		40.0	15,281
1999	1997	200	3,385	1,615	19.1	30,910	27,810	<sup>5</sup> 3,100	51.8		46.9	14,501
2000         174         2,005         1,130         33.8         38,200         33,950         54,250         29.7         26.8         10,223           Honolulu           1996         21         215         80         22.9         1,830         1,830         0         51.2         51.2         937           1997         20         425         255         22.3         5,695         5,695         0         59.4         59.4         3,383           1998         23         525         300         18.3         5,485         5,485         0         55.1         55.1         3,022           1999         22         550         335         24.7         8,265         8,265         0         52.3         52.3         4,322           Kauai           1996         15         135         75         17.3         1,295         1,295         6         6.47.1         6.47.1         6.47.1         6.47.1         6.49.8         6.49.8         6.199.4           1998         21         245         135         15.3         2,065         2,065         5         6.33.5         6.33.5         6.37.4         6.49	1998	208	2,715	1,640	18.9	31,050	26,750	<sup>5</sup> 4,300	31.1		27.2	8,439
Honolulu         1996       21       215       80       22.9       1,830       1,830       0       51.2       51.2       937         1997       20       425       255       22.3       5,695       5,695       0       59.4       59.4       3,383         1998       23       525       300       18.3       5,485       5,485       0       55.1       55.1       3,022         1999       22       550       335       24.7       8,265       8,265       0       52.3       52.3       4,322         2000       34       510       335       34.4       11,515       11,515       0       34.7       34.7       3,996         Kauai         1996       15       135       75       17.3       1,295       1,295       5       647.1       647.1       6836         1997       17       185       80       16.0       1,280       1,280       5       649.8       649.8       61,094         1998       21       245       135       15.3       2,065       2,065       6       633.5       633.5       633.5       61,128         199	1999	168	2,595	1,415	20.1	28,455	25,455	<sup>5</sup> 3,000	36.3		32.8	9,327
1996   21   215   80   22.9   1,830   1,830   0   51.2   51.2   937     1997   20   425   255   22.3   5,695   5,695   0   59.4   59.4   3,383     1998   23   525   300   18.3   5,485   5,485   0   55.1   55.1   3,022     1999   22   550   335   24.7   8,265   8,265   0   52.3   52.3   4,322     2000   34   510   335   34.4   11,515   11,515   0   34.7   34.7   3,996      Kauai	2000	174	2,005	1,130	33.8	38,200	33,950	⁵ 4,250	29.7		26.8	10,223
1996   21   215   80   22.9   1,830   1,830   0   51.2   51.2   937     1997   20   425   255   22.3   5,695   5,695   0   59.4   59.4   3,383     1998   23   525   300   18.3   5,485   5,485   0   55.1   55.1   3,022     1999   22   550   335   24.7   8,265   8,265   0   52.3   52.3   4,322     2000   34   510   335   34.4   11,515   11,515   0   34.7   34.7   3,996      Kauai	Honol	ulu										
1997 20 425 255 22.3 5,695 5,695 0 59.4 59.4 3,383 1998 23 525 300 18.3 5,485 5,485 0 55.1 55.1 3,022 1999 22 550 335 24.7 8,265 8,265 0 52.3 52.3 4,322 2000 34 510 335 34.4 11,515 11,515 0 34.7 34.7 3,996   Kauai  1996 15 135 75 17.3 1,295 1,295 5 647.1 647.1 8866 1997 17 185 80 16.0 1,280 1,280 5 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 5 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 637.4 637.4 61,788  Maui  1996 5 30 20 24.0 480 480 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			215	90	22.0	1 920	1 920	0	<b>51</b> 2		<b>51</b> 2	027
1998 23 525 300 18.3 5,485 5,485 0 55.1 55.1 3,022 1999 22 550 335 24.7 8,265 8,265 0 52.3 52.3 4,322 2000 34 510 335 34.4 11,515 11,515 0 34.7 34.7 3,996   Kauai  1996 15 135 75 17.3 1,295 1,295 5 647.1 647.1 6836 1997 17 185 80 16.0 1,280 1,280 5 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 5 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 637.4 637.4 61,788   Maui  1996 5 30 20 24.0 480 480 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6												
1999       22       550       335       24.7       8,265       8,265       0       52.3       52.3       4,322         2000       34       510       335       34.4       11,515       11,515       0       34.7       34.7       3,996         Kauai         1996       15       135       75       17.3       1,295       1,295       5       647.1       647.1       6836         1997       17       185       80       16.0       1,280       1,280       5       649.8       649.8       61,094         1998       21       245       135       15.3       2,065       2,065       633.5       633.5       633.5       61,128         1999       22       285       145       32.8       4,760       4,760       5       640.1       640.1       62,280         2000       23       275       160       24.7       3,945       3,945       637.4       637.4       637.4       61,788         Maui         1996       5       30       20       24.0       480       480       0       6       6       6       6         1997												
Kauai       1996       15       135       75       17.3       1,295       1,295       5       647.1       647.1       6836         1997       17       185       80       16.0       1,280       1,280       5       649.8       649.8       61,094         1998       21       245       135       15.3       2,065       2,065       5       633.5       633.5       61,128         1999       22       285       145       32.8       4,760       4,760       5       640.1       640.1       62,280         2000       23       275       160       24.7       3,945       3,945       5       637.4       637.4       61,788         Maui         1996       5       30       20       24.0       480       480       0       6       6       6         1997       4       60       35       26.1       915       915       0       6       6       6         1998       10       70       45       28.9       1,300       1,300       0       6       6       6         1999       10       70       45       20.4												
Kauai         1996       15       135       75       17.3       1,295       1,295       5       647.1       647.1       6836         1997       17       185       80       16.0       1,280       1,280       5       649.8       649.8       61,094         1998       21       245       135       15.3       2,065       2,065       5       633.5       633.5       61,128         1999       22       285       145       32.8       4,760       4,760       5       640.1       640.1       62,280         2000       23       275       160       24.7       3,945       3,945       637.4       637.4       61,788     Maui  1996 5 30 4 60 35 26.1 915 915 0 6 6 6 6 1998 10 70 45 28.9 1,300 1,300 0 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6												
1996       15       135       75       17.3       1,295       1,295       5       647.1       647.1       6836         1997       17       185       80       16.0       1,280       1,280       5       649.8       649.8       61,094         1998       21       245       135       15.3       2,065       2,065       5       633.5       633.5       61,128         1999       22       285       145       32.8       4,760       4,760       5       640.1       640.1       62,280         2000       23       275       160       24.7       3,945       3,945       5       637.4       637.4       61,788     Maui  1996 5 30 20 24.0 480 480 480 0 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 6 6 6 1998 10 70 45 28.9 1,300 1,300 0 6 6 6 6 6 1999 10 70 45 20.4 920 920 0 6 6 6 6 6 6 6 6 6	2000	34	310	333	34.4	11,515	11,515	U	34.7		34.7	3,990
1997 17 185 80 16.0 1,280 1,280 5 649.8 649.8 61,094 1998 21 245 135 15.3 2,065 2,065 5 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 5 637.4 637.4 61,788  Maui 1996 5 30 20 24.0 480 480 0 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 1998 10 70 45 28.9 1,300 1,300 0 6 1999 10 70 45 20.4 920 920 0 6								_				
1997 17 185 80 16.0 1,280 1,280 49.8 49.8 49.8 1,094 1998 21 245 135 15.3 2,065 2,065 5 633.5 633.5 61,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 5 637.4 637.4 61,788  Maui 1996 5 30 20 24.0 480 480 0 6 6 6 6 1997 4 60 35 26.1 915 915 0 6 1998 10 70 45 28.9 1,300 1,300 0 6 1999 10 70 45 20.4 920 920 0 6												
1998 21 245 135 13.5 2,005 2,005 33.5 33.5 1,128 1999 22 285 145 32.8 4,760 4,760 5 640.1 640.1 62,280 2000 23 275 160 24.7 3,945 3,945 637.4 637.4 61,788    Maui				80								<sup>6</sup> 1,094
1999 22 265 145 32.6 4,760 4,760 5 40.1 40.1 2,280 2000 23 275 160 24.7 3,945 3,945 5 637.4 637.4 61,788    Maui												<sup>6</sup> 1,128
Maui       1996     5     30     20     24.0     480     480     0     6     6     6       1997     4     60     35     26.1     915     915     0     6     6     6       1998     10     70     45     28.9     1,300     1,300     0     6     6     6       1999     10     70     45     20.4     920     920     0     6     6     6	1999	22	285	145	32.8	4,760	4,760					
1996       5       30       20       24.0       480       480       0       6       6       6       6         1997       4       60       35       26.1       915       915       0       6       6       6       6         1998       10       70       45       28.9       1,300       1,300       0       6       6       6       6         1999       10       70       45       20.4       920       920       0       6       6       6       6	2000	23	275	160	24.7	3,945	3,945	5	<sup>6</sup> 37.4		<sup>6</sup> 37.4	<sup>6</sup> 1,788
1996       5       30       20       24.0       480       480       0       6       6       6       6         1997       4       60       35       26.1       915       915       0       6       6       6       6         1998       10       70       45       28.9       1,300       1,300       0       6       6       6       6         1999       10       70       45       20.4       920       920       0       6       6       6       6	Maui											
1997     4     60     35     26.1     915     915     0     6     6     6       1998     10     70     45     28.9     1,300     1,300     0     6     6     6       1999     10     70     45     20.4     920     920     0     6     6     6		5	30	20	24 0	480	480	Ω	6		6	6
1998 10 70 45 28.9 1,300 1,300 0 <sup>6</sup> <sup>6</sup> <sup>6</sup> <sup>6</sup> 1999 10 70 45 20.4 920 920 0 <sup>6</sup> <sup>6</sup> <sup>6</sup>									6		6	6
1999 10 70 45 20.4 920 920 0 6 6 6									6		6	6
									6		6	6
	2000	5	55	<b>25</b>	33.6	840	840	Ŏ	6		6	6

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

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<sup>&</sup>lt;sup>2</sup> Average of monthly estimates.

<sup>&</sup>lt;sup>3</sup> Utilized production divided by acreage harvested.

<sup>&</sup>lt;sup>4</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

<sup>&</sup>lt;sup>5</sup> Kauai combined with Hawaii to avoid disclosure of individual operations. <sup>6</sup> Maui combined with Kauai to avoid disclosure of individual operations.

PA	PAPAYAS: Acreage, utilization, outshipments, and price, State of Hawaii, 1996-2000												
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harveste	d acres 1												
1996	2,365	2,265	2,145	2,030	1,940	1,830	1,740	1,670	1,630	1,530	1,400	1,470	1,835
1997	1,500	1,485	2,115	2,120	2,125	2,255	2,325	2,350	1,955	1,955	1,920	1,715	1,985
1998	1,735	1,740	1,750	1,775	2,175	2,460	2,440	2,420	2,310	2,240	2,215	2,185	2,120
1999	2,190	2,135	2,100	2,145	2,155	2,025	2,035	2,025	1,615	1,620	1,605	1,635	1,940
2000	1,635	1,675	1,655	1,655	1,670	1,585	1,330	1,610	1,725	1,690	1,695	1,875	1,650
Utilization	ı (fresh	and pro	cessed	<b>) -</b> 1.000	pounds								
1996	4,010	3,760	3,150	2,945	3,605	3,385	3,395	3,500	3,305	3,935	3,395	3,415	41,800
1997	3,535	3,075	3,005	2,835	2,945	3,045	3,110	2,905	3,330	3,870	3,480	3,665	38,800
1998	3,395	2,910	2,995	3,605	3,790	3,160	3,620	3,420	2,770	3,200	3,335	3,700	39,900
1999	3,310	3,155	3,315	3,475	3,655	3,440	3,490	3,705	3,695	3,835	3,785	3,540	42,400
2000	3,310	3,575	4,655	5,185	5,325	5,245	5,375	4,445	3,510	4,290	4,585	5,000	54,500
Total fres	h papay	a utiliza	ition - 1	,000 pou	ınds								
1996	3,575	3,530	2,990	2,815	3,385	3,105	2,875	2,990	3,005	3,450	2,940	3,140	37,800
1997	3,425	3,020	2,915	2,720	2,730	2,760	2,845	2,705	2,990	3,415	3,030	3,145	35,700
1998	2,875	2,655	2,845	3,375	2,995	2,685	3,095	2,785	2,495	3,165	3,250	3,380	35,600
1999	2,975	2,985	3,155	3,260	3,365	3,215	3,225	3,315	3,480	3,520	3,565	3,340	39,400
2000	3,175	3,440	4,610	4,700	4,625	4,425	4,665	3,860	3,355	4,255	4,430	4,710	50,250
Intrastate	fresh p	apaya u	tilizatio	<b>n -</b> 1,000	) pound:	S							
1996	1,270	1,265	880	985	1,030	1,005	925	1,095	1,195	1,300	1,150	1,200	13,300
1997	1,335	1,290	1,195	930	1,005	980	935	1,100	1,145	1,450	1,260	1,085	13,710
1998	1,020	1,130	1,025	1,310	1,160	945	1,210	1,155	1,040	1,415	1,499	1,561	14,470
1999	1,405	1,390	1,305	1,500	1,645	1,410	1,385	1,475	1,610	1,695	1,720	1,535	18,075
2000	1,560	1,730	2,255	2,185	2,060	1,880	1,925	1,835	1,685	2,170	2,465	2,350	24,100
Outshipm	ents of	fresh pa	apayas	- 1,000 p	oounds								
1996	2,305	2,265	2,110	1,830	2,355	2,100	1,950	1,895	1,810	2,150	1,790	1,940	24,500
1997	2,090	1,730	1,720	1,790	1,725	1,780	1,910	1,605	1,845	1,965	1,770	2,060	21,990
1998	1,855	1,525	1,820	2,065	1,835	1,740	1,885	1,630	1,455	1,750	1,751	1,819	21,130
1999	1,570	1,595	1,850	1,760	1,720	1,805	1,840	1,840	1,870	1,825	1,845	1,805	21,325
2000	1,615	1,710	2,355	2,515	2,565	2,545	2,740	2,025	1,670	2,085	1,965	2,360	26,150
Farm pric	e for fre	sh marl	ket sale	s (to all	markets	s) - cent	s per po	und					
1996	32.3	34.9	45.3	73.9	51.0	, 39.1	45.1	42.7	43.0	40.2	46.6	49.9	44.8
1997	39.8	42.2	63.9	93.4	89.4	68.4	54.1	51.3	47.0	33.7	34.1	32.0	52.9
1998	31.6	38.9	50.2	43.2	33.4	40.4	36.5	31.8	35.9	30.0	23.8	26.8	35.0
1999	29.5	35.5	41.1	44.2	44.7	44.3	43.7	44.4	39.9	37.0	35.1	42.7	40.2
2000	44.9	44.8	38.8	39.6	26.7	25.7	36.3	34.5	30.2	22.7	21.0	21.0	31.6

<sup>1</sup>Total is average of monthly data.

GUAVAS: Total quantity processed, farm production, number of farms, acreage, price, and value, by counties, 1996-2000

			Farm pr	oduction		
Year	Farms		creage	Utilized	Farm	Value of
	i aiiiis	In crop 1	Harvested	Production	price <sup>2</sup>	sales
				1,000	Cents per	1,000
	Number		Acres	pounds	pound	dollars
State						
1996	140	920	750	16,300	13.8	2,249
1997	130	900	730	15,900	12.2	1,940
1998	125	890	710	14,600	12.2	1,781
1999	130	870	630	10,700	12.0	1,284
2000	130	800	680	15,900	12.9	2,051
Counties:						
Hawaii						
1996	135	440	370	7,500	13.8	1,035
1997	125	440	350	6,400	12.2	<sup>′</sup> 781
1998	120	430	320	7,100	12.2	866
1999	125	430	240	-		3
2000	120	340	240	3	3	3
Honolulu/K	(auai/Maui ⁴					
1996	5	480	380	8,800	13.8	1,214
1997	5	460	380	9,500	12.2	1,159
1998	5	460	390	7,500	12.2	915
1999	5	440	390	ŭ		3
2000	10	460	440	3	3	3

<sup>&</sup>lt;sup>1</sup> Includes planting intentions.

GUAVAS: Quantity, price, and value, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual total 1	Farm price 2	Value
							1,000	pounds -						Cents per lb.	1,000 dollars
1996	365	164	293	566	1,153	1,612	767	911	4,058	4,273	1,291	847	16,300	13.8	2,249
1997	123	667	913	552	763	1,270	1,150	1,607	3,559	2,565	1,164	1,567	15,900	12.2	1,940
1998	971	658	900	809	679	504	855	1,150	1,849	3,154	1,912	1,159	14,600	12.2	1,781
1999	487	286	819	480	279	491	633	735	1,468	2,216	1,962	844	10,700	12.0	1,284
2000	963	905	1,011	494	855	681	805	862	1,085	3,092	3,065	2,082	15,900	12.9	2,051

<sup>&</sup>lt;sup>1</sup>Sum of monthly estimates may not add to annual total due to rounding.

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<sup>&</sup>lt;sup>2</sup> State average grower price. Equivalent F.O.B. plant, county of production.

<sup>&</sup>lt;sup>3</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

<sup>&</sup>lt;sup>4</sup> Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

<sup>&</sup>lt;sup>2</sup> State average grower price. Equivalent F.O.B. plant, county of production.

#### 2000 VEGETABLE, MELON, AND TARO HIGHLIGHTS

#### **VEGETABLES AND MELONS**

Total production of vegetables and melons for 2000 is estimated at 97.7 million pounds, down 2 percent from 1999's record high output. Despite the drop in production, farm revenues were at a record high \$45.5 million, up 6 percent from 1999.

Although weather conditions remained generally dry in 2000, the overall situation did not get severe enough to adversely affect the vital flow of irrigation water to farmers. As a result, average yields were higher for a majority of the State's vegetables and melons as crops benefitted from generally sunny skies, moderate temperatures, and adequate irrigation.

Leading all individual vegetables and melons in terms of farm value were tomato growers with \$8.6 million in 2000, up 9 percent from 1999. Watermelons were a distant second at \$3.2 million, up 32 percent. Tomatoes also lead all individual vegetable and melons in terms of volume with a 2000 harvest of 16.5 million pounds, down 2 percent from 1999's record-high of 16.8 million pounds. A boost



in yields kept head cabbage growers in second place with production estimated at 14.6 million pounds, up 2 percent from 1999 and the second largest harvest in the past 8 years.

#### TARO

Hawaii taro production is estimated at 7.0 million pounds for 2000, up 3 percent from 1999 and the highest total since 1978. The combined farm price for poi and Chinese taro averaged 53 cents per pound in 2000, unchanged from the record high achieved in 1998. The boost in production, combined with steady farm prices, enabled taro farmers to post farm revenues of \$3.7 million, up 3 percent from 1999 and a new record high.

Taro for processing totaled 6.8 million pounds in 2000, up 5 percent from 1999. Most of the processed taro is made into poi. In 2000, that amount totaled 6.7 million pounds, an 8-percent increase from 1999. Weather conditions were generally favorable for taro growing with mostly sunny skies and adequate water available for most of the year. The absence of any major flooding also helped taro growers. In addition, farmers continued to refine cultural practices to combat the persistent presence of the Taro Pocket Rot disease and the destructive presence of Apple snails.

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1996-2000 <sup>1</sup>

Comr	nodity	1996	1997²	1998 ²	1999	2000	Hawaii market share 2000
				- 1,000 pounds -			Percent
Beans, snap:	Inshipments Hawaii	500 520	700	900	185 1,000	591 1,200	67
Bittermelon:	Inshipments Hawaii	67 150	180	350	53 550	53 300	85
Broccoli:	Inshipments Hawaii	6,199 500	450	350	5,943 300	5,285 400	7
Burdock:	Inshipments Hawaii	12 300	220	200	41 250	41 180	81
Cabbage, Chinese:	Inshipments Hawaii ³	642 6,450	6,500	6,700	114 6,400	281 6,200	96
Cabbage, head:	Inshipments Hawaii	1,521 14,100	13,000	15,300	498 14,300	899 14,600	94
Cabbage, mustard:	Inshipments Hawaii	53 1,700	1,500	1,500	93 1,600	72 1,500	95
Carrots:	Inshipments Hawaii	11,296 	4	4	11,667	<b>12,505</b>	
Cauliflower:	Inshipments Hawaii	1,192 120	200	130	1451 4	1,337	
Celery:	Inshipments Hawaii	6,029 1,150	1,250	1,300	5,022 1,300	5,259 1,100	17
Corn, sweet:	Inshipments Hawaii	1,370 1,400	1,300	1,100	1,648 1,700	1,271 2,400	65
Cucumbers:	Inshipments Hawaii	1,328 4,800	5,500	6,000	721 5,800	729 5,700	89
Daikon:	Inshipments Hawaii³	95 2,800	2,600	2,450	 2,300	4 2,750	100
Dasheen:	Inshipments Hawaii	152 100	95	4	48	<b>87</b>	
Eggplant:	Inshipments Hawaii	535 1,300	1,500	1,300	445 1,500	489 1,200	71
Ginger root:	Inshipments Hawaii	20 9,400	12,100	18,000	286 16,100	155 13,500	99
Lettuce 5:	Inshipments Hawaii	16,496 1,500	1,600	1,700	12,719 1,500	13,728 1,300	9
Lotus root:	Inshipments Hawaii <sup>4</sup>	9	•	•	50	51	
Onions, dry:	Inshipments Hawaii	17,235 2,000	1,700	3,500	16,093 3,400	16,460 4,300	21
See footnotes at end o	See footnotes at end of table.						Continued

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1996-2000 1 -- Continued

Comr	modity	1996	1997²	1998 ²	1999	2000	Hawaii market share 2000
				- 1,000 pounds			Percent
Onions, green:	Inshipments Hawaii	385 1,400	1,400	1,500	170 1,700	263 1,500	85
Parsley, American:	Inshipments Hawaii	86 200	200	125	25 190	17 220	93
Peas, Chinese:	Inshipments Hawaii	310 25	25	4	<sub>4</sub> 381	<sub>4</sub> 344	
Peppers, green:	Inshipments Hawaii	2,509 2,600	2,000	3,000	1,804 3,000	1,948 2,800	59
Potatoes:	Inshipments <sup>6</sup> Hawaii <sup>4</sup>	43,988			35,702	40,474	
Potatoes, sweet:	Inshipments Hawaii	1,260 2,500	2,400	1,900	1,239 2,900	1,366 2,500	65
Pumpkins:	Inshipments Hawaii	1,748 250	450	550	1,144 450	1,426 170	11
Radish:	Inshipments Hawaii	2 200	160	150	 130	6 100	94
Romaine:	Inshipments Hawaii	5,362 1,700	1,900	3,300	5,023 2,700	6,337 2,000	24
Squash, Italian:	Inshipments Hawaii	2,086 700	1,400	1,500	979 1,900	1,188 2,200	65
Squash, oriental:	Inshipments Hawaii	79 200	300	240	 600	4 600	99
Taro:	Inshipments Hawaii ³	509 500	400	300	1,491 300	1,293 200	13
Tomatoes:	Inshipments Hawaii	14,376 7,000	10,200	10,200	3,973 16,800	3,340 16,500	83
Watercress:	Inshipments Hawaii	22 1,000	1,020	980	10 970	10 970	99
All other vegetables:	Inshipments Hawaii	15,013 7,560	11,300	10,401	18,856 12,710	20,937 10,980	34
Unspecified vegetables:	Inshipments 7	4,750			23,000	21,000	
Total:	Inshipments Hawaii All	158,036 74,125 232,161	83,550	94,926	150,874 102,350 253,224	159,250 97,370 256,620	38

<sup>-- =</sup> Negligible.

<sup>&</sup>lt;sup>1</sup>Inshipment data was provided by the Market Analysis and News Branch of the State Department of Agriculture.

<sup>&</sup>lt;sup>2</sup> Inshipment data not available at time of printing.

<sup>&</sup>lt;sup>3</sup> Fresh market only.

<sup>&</sup>lt;sup>4</sup> Data not shown separately to avoid disclosure of individual operations but combined and included with "All other vegetables".

<sup>&</sup>lt;sup>5</sup> Processed lettuce, both local production and inshipments, are included in "All other vegetables".

<sup>&</sup>lt;sup>6</sup> For processing and fresh market.

<sup>&</sup>lt;sup>7</sup> Inshipment of "Unspecified vegetables" were prorated based on the amount of known vegetables imported into the State.

SNAP BEANS: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	unds	Cents per pound	1,000 dollars
State <sup>1</sup>					
1996	160	3.3	520	97.0	504
1997	130	5.4	700	99.0	693
1998	200	4.5	900	82.0	738
1999	200	5.0	1,000	88.0	880
2000	210	5.7	1,200	91.0	1,092
Counties:					
Hawaii/Kaua	ni <sup>2</sup>				
1996	107	2.1	220	89.0	196
1997	70	3.1	220	92.0	202
1998	85	2.9	250	80.0	200
1999	85	3.2	270	84.2	227
2000	75	4.7	350	94.4	330
Honolulu					
1996	16	3.4	55	95.1	52
1997	15	8.7	130	101.5	132
1998	20	7.5	150	81.0	122
1999	25	6.4	160	98.0	157
2000	65	4.6	300	98.0	294
Maui					
1996	37	6.6	245	104.6	256
1997	45	7.8	350	102.5	359
1998	95	5.3	500	83.2	416
1999	90	6.3	570	87.0	496
2000	70	7.9	550	85.0	468

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

#### SNAP BEANS: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	l acres 1												
1996	14	16	12	16	16	16	15	10	8	8	11	18	160
1997	10	12	16	12	9	14	14	12	12	11	17	18	130
1998	14	13	19	21	21	21	15	15	17	21	20	17	200
1999	18	19	17	17	18	22	20	17	18	18	20	17	200
2000	17	26	22	25	20	19	15	13	15	18	14	17	210
Productio	n - 1,000 p	ounds											
1996	30	43	31	63	68	54	50	42	40	29	34	36	520
1997	26	48	49	71	54	69	69	59	67	59	65	64	700
1998	52	73	119	72	84	75	70	98	73	66	72	46	900
1999	72	66	89	73	94	88	78	65	98	97	103	77	1,000
2000	107	104	111	105	117	110	106	101	87	83	80	89	1,200
Farm pric	e - cents p	er pound											
1996	110.0	117.2	120.1	106.9	76.7	69.3	78.0	96.7	100.7	110.7	102.5	110.7	97.0
1997	112.6	126.4	117.2	109.4	96.2	81.5	78.1	79.2	96.2	100.7	103.7	106.5	99.0
1998	112.8	85.8	74.9	76.8	86.4	75.1	67.5	57.4	86.9	91.5	86.6	115.9	82.0
1999	100.2	103.6	93.4	101.1	84.0	66.2	77.8	85.6	83.4	80.7	87.3	102.3	88.0
2000	162.3	90.5	72.1	80.1	73.1	71.1	72.1	78.0	89.4	98.7	111.5	103.9	91.0

<sup>&</sup>lt;sup>1</sup> Sum of monthly data exceeds total because harvest period longer than 1 month.

<sup>&</sup>lt;sup>2</sup> Kauai combined with Hawaii to avoid disclosure of individual operations.

### CHINESE CABBAGE: Acreage, yield, production, price, and value, by counties, 1996-2000

			· •	•	
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
State 1					
1996	410	18.8	7,700	23.5	1,810
1997	390	19.7	7,700	23.0	1,771
1998	380	20.8	7,900	19.0	1,501
1999	330	22.7	7,500	19.0	1,425
2000	320	22.5	7,200	21.0	1,512
Counties:					
Hawaii					
1996	290	19.3	5,600	23.8	1,333
1997	270	20.0	5,400	23.0	1,242
1998	270	20.7	5,600	19.0	1,064
1999	220	23.2	5,100	19.0	969
2000	225	22.2	5,000	20.7	1,035
Honolulu/Ka	auai/Maui <sup>2</sup>				
1996	120	15.8	2,100	22.7	477
1997	120	19.2	2,300	23.0	529
1998	110	20.9	2,300	19.0	437
1999	110	21.8	2,400	19.0	456
2000	95	23.2	2,200	21.7	477

#### CHINESE CABBAGE: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	acres												
1996	38	42	46	38	27	29	31	32	43	30	29	25	410
1997	29	33	37	34	35	30	32	31	34	31	37	27	390
1998	34	39	35	31	32	29	33	28	32	32	28	27	380
1999	30	33	29	29	29	27	30	26	26	21	22	28	330
2000	27	28	28	26	25	28	24	26	26	28	25	29	320
Processin Producti	g and fres												
1996	687	724	841	755	615	533	588	603	544	597	594	619	7,700
1997	578	664	738	794	747	575	571	569	515	599	714	636	7,700
1998	752	781	608	704	714	576	700	578	632	649	624	582	7,900
1999	623	676	595	551	610	600	668	614	628	651	696	588	7,500
2000	760	608	640	644	630	544	533	590	653	574	454	570	7,200
Farm pri	ce - cents	per pound											
1996	21.4	19.8	19.2	18.5	19.2	22.5	25.5	24.9	26.6	27.9	29.8	31.2	23.5
1997	32.5	28.2	17.8	17.0	16.7	16.9	23.2	23.1	28.0	30.4	26.7	20.5	23.0
1998	23.7	17.7	15.6	16.7	15.7	16.2	19.6	20.0	22.0	17.8	19.6	23.2	19.0
1999	22.2	17.1	15.0	16.2	18.2	18.9	18.4	20.1	22.6	19.4	20.9	18.4	19.0
2000	20.7	15.8	14.6	14.8	17.5	22.2	28.4	24.4	23.8	21.4	25.0	27.1	21.0

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, yield, production, price, and value, by counties, 1996-2000

	•	, ,	, · · ·	, ,	•
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
State 1					
1996	640	22.0	14,100	18.5	2,609
1997	650	20.0	13,000	20.5	2,665
1998	600	25.5	15,300	18.0	2,754
1999	550	26.0	14,300	18.0	2,574
2000	540	27.0	14,600	19.0	2,774
Counties:					
Hawaii/Hon	olulu/Kauai ²				
1996	325	20.9	6,800	18.5	1,258
1997	350	18.0	6,300	20.4	1,285
1998	320	25.0	8,000	18.0	1,440
1999	340	25.3	8,600	18.2	1,565
2000	350	26.6	9,300	19.4	1,804
Maui					
1996	315	23.2	7,300	18.5	1,351
1997	300	22.3	6,700	20.6	1,380
1998	280	26.1	7,300	18.0	1,314
1999	210	27.1	5,700	17.7	1,009
2000	190	27.9	5,300	18.3	970

#### HEAD CABBAGE: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	lacres												
1996	56	52	58	51	53	58	57	53	53	50	47	52	640
1997	47	54	54	56	58	52	54	50	62	55	54	54	650
1998	54	52	56	50	50	48	50	49	47	48	48	48	600
1999	49	56	50	48	44	42	41	41	42	44	47	46	550
2000	51	44	50	44	41	48	41	42	46	46	40	47	540
Productio	n - 1,000 p	ounds											
1996	1,241	1,218	1,422	1,257	1,300	1,191	1,239	1,167	1,040	1,055	1,037	933	14,100
1997	842	795	1,077	1,094	1,195	1,179	1,262	1,109	1,178	1,025	1,048	1,196	13,000
1998	1,126	1,256	1,272	1,240	1,404	1,234	1,314	1,266	1,338	1,384	1,249	1,217	15,300
1999	1,223	1,221	1,518	1,135	1,118	1,016	1,112	1,124	1,193	1,295	1,162	1,183	14,300
2000	1,258	1,227	1,401	1,287	1,263	1,326	1,236	1,250	978	1,231	1,169	924	14,600
Farm price	e - cents pe	er pound											
1996	19.0	18.2	17.5	16.4	18.5	15.9	15.7	16.4	18.7	22.9	21.3	23.7	18.5
1997	24.5	25.9	21.1	19.0	17.5	16.0	16.6	23.6	20.5	22.5	24.2	18.7	20.5
1998	21.6	19.9	16.8	16.3	16.4	16.5	16.1	17.0	18.0	16.3	18.7	23.1	18.0
1999	22.0	18.3	14.0	15.0	15.8	17.7	20.6	20.7	19.1	16.8	20.7	16.8	18.0
2000	19.6	17.7	14.9	15.2	15.8	18.2	18.4	19.0	20.2	23.1	22.5	26.4	19.0

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

CELERY: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	unds	Cents per pound	1,000 dollars
State 1					
1996	55	20.9	1,150	29.0	334
1997	50	25.0	1,250	30.0	375
1998	50	26.0	1,300	28.0	364
1999	50	26.0	1,300	29.0	377
2000	50	22.0	1,100	31.0	341
Counties: Hawaii					
1996	35	24.3	850	30.0	255
1997	30	29.3	880	31.0	273
1998	30	27.7	830	29.4	244
1999	25	32.0	800	31.5	252
2000	25	30.0	750	32.4	243
Maui					
1996	20	15.0	300	26.3	79
1997	20	18.5	370	27.5	102
1998	20	23.5	470	25.5	120
1999	25	20.0	500	25.0	125
2000	25	14.0	350	28.0	98

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

CELERY: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	lacres												
1996	4	4	5	6	5	5	5	4	3	5	4	5	55
1997	5	4	3	4	5	4	4	4	4	4	4	5	50
1998	4	4	5	4	5	4	4	4	4	4	4	4	50
1999 <b>2000</b> ¹	4	4	4	4	5	4	4	4	5	4	4	4	50
Productio	n - 1,000 p	ounds											
1996	91 ′	94	111	119	128	97	93	84	69	82	90	92	1,150
1997	111	100	92	102	125	124	117	95	87	103	92	102	1,250
1998	96	108	112	125	130	112	113	123	99	99	95	88	1,300
1999	107	105	102	106	108	99	99	103	116	109	125	121	1,300
2000 <sup>1</sup>													
Farm price	e - cents p	er pound											
199 <del>6</del>	31.6	30.7	28.3	28.3	27.2	28.5	22.3	30.6	30.2	31.2	31.1	29.6	29.0
1997	30.5	29.6	31.1	30.2	29.8	28.1	29.3	30.1	30.4	30.8	31.1	29.6	30.0
1998	28.1	27.7	27.0	28.5	28.8	28.5	28.4	27.8	28.1	25.2	30.3	26.6	28.0
1999	28.1	30.3	30.5	29.1	29.7	28.6	29.3	29.0	28.9	27.6	28.8	28.7	29.0
2000 <sup>1</sup>													

<sup>&</sup>lt;sup>1</sup> Data not shown separately beginning 2000.

#### SWEET CORN: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales	
		1,000 po	unds	Cents per pound	1,000 dollars	
State 1						
1996	400	3.5	1,400	50.0	700	
1997	420	3.1	1,300	54.0	702	
1998	400	2.8	1,100	57.0	627	
1999	450	3.8	1,700	58.0	986	
2000	440	5.5	2,400	55.0	1,320	
Counties:						
Hawaii/Kaua	ai <sup>2</sup>					
1996	155	3.4	525	48.2	253	
1997	155	3.9	610	47.5	290	
1998	120	3.4	410	49.6	203	
1999	180	4.6	830	52.3	434	
2000	155	6.6	1,020	43.3	442	
Honolulu						
1996	195	3.5	690	48.2	333	
1997	240	2.3	560	56.0	314	
1998	240	2.2	520	59.0	307	
1999	215	2.9	630	62.0	391	
2000 <sup>3</sup>	285	4.8	1,380	63.6	878	
Maui						
1996	50	3.7	185	61.5	114	
1997	25	5.2	130	75.5	98	
1998	40	4.3	170	69.0	117	
1999	55	4.4	240	67.0	161	
2000 <sup>3</sup>						

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Kauai combined with Hawaii to avoid disclosure of individual operations. <sup>3</sup> Maui combined with Honolulu to avoid disclosure of individual operations.

#### SWEET CORN: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	dacres												
1996	21	20	21	25	33	38	51	50	41	38	38	24	400
1997	11	13	34	27	37	42	55	52	47	37	36	29	420
1998	20	19	20	42	37	44	54	39	32	32	38	23	400
1999	15	14	30	30	31	46	52	51	38	47	49	47	450
2000	31	20	28	38	41	41	39	49	38	43	42	30	440
Production	n - 1,000 i	oounds											
1996	47	46	58	48	82	128	262	226	198	148	98	59	1,400
1997	26	25	94	93	113	125	178	197	136	105	115	93	1,300
1998	65	58	54	149	107	97	129	97	96	81	104	63	1,100
1999	32	20	88	90	132	198	202	212	153	201	159	213	1,700
2000	176	134	144	172	232	241	274	265	222	240	175	125	2,400
Farm pric	e - cents p	er pound											
199 <b>6</b>	58.8	49.4	48.7	61.7	50.1	63.0	44.5	46.5	47.2	49.9	50.4	53.0	50.0
1997	47.3	48.4	47.0	55.8	53.6	63.4	49.7	60.5	57.0	53.6	48.4	47.4	54.0
1998	53.5	51.9	53.2	55.4	56.6	51.3	57.8	64.1	63.5	62.1	56.0	54.2	57.0
1999	55.8	60.4	72.5	59.2	62.1	43.3	45.9	58.9	54.0	62.3	63.8	67.4	58.0
2000	50.2	60.2	78.3	56.5	57.3	54.6	41.3	49.0	53.8	49.8	64.6	64.8	55.0

#### CUCUMBERS: Acreage, yield, production, price, and value, by counties, 1996-2000

	<b>U</b> ,	, , , , , , , , , , , , , , , , , , ,	<u>, , , , , , , , , , , , , , , , , , , </u>		•
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
State 1					
1996	400	12.0	4,800	43.0	2,064
1997	440	12.5	5,500	40.0	2,200
1998	480	12.5	6,000	42.0	2,520
1999	470	12.3	5,800	43.0	2,494
2000	400	14.3	5,700	44.0	2,508
Counties: Hawaii/Kaua	ai <sup>2</sup>				
1996	45	17.8	800	39.4	315
1997	55	14.5	800	38.4	307
1998	50	14.0	700	39.7	278
1999	45	14.4	650	39.6	257
2000	40	17.5	700	42.2	295
Honolulu					
1996	215	7.0	1,500	50.7	761
1997	230	9.1	2,100	50.5	1,061
1998	260	9.2	2,400	51.0	1,224
1999	280	10.2	2,850	49.0	1,397
2000	200	12.5	2,500	49.0	1,225
Maui					
1996	140	17.9	2,500	39.5	988
1997	155	16.8	2,600	32.0	832
1998	170	17.1	2,900	35.1	1,018
1999	145	15.9	2,300	36.5	840
2000	160	15.6	2,500	39.5	988

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

#### CUCUMBERS: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	d acres 1												
1996	42	39	42	42	44	42	31	33	32	35	33	21	400
1997	17	23	36	38	40	39	41	45	48	42	43	41	440
1998	42	37	33	44	43	44	46	44	42	39	40	44	480
1999	41	36	42	42	39	32	41	41	44	43	48	48	470
2000	35	34	34	35	35	31	31	32	32	33	36	36	400
Productio	n - 1,000 p	ounds											
1996	334	292	410	549	522	382	420	401	397	520	238	335	4,800
1997	305	356	340	460	447	564	476	525	689	511	442	385	5,500
1998	391	320	453	574	522	514	647	568	499	501	482	529	6,000
1999	557	429	537	588	456	352	538	547	477	482	448	389	5,800
2000	470	464	530	553	536	504	488	408	413	476	391	467	5,700
Farm pric	e - cents p	er pound											
1996	50.8	48.8	56.6	48.7	40.7	32.7	34.2	34.4	37.3	41.2	45.9	48.5	43.0
1997	40.6	53.0	43.8	41.2	37.5	36.4	37.2	39.9	34.1	39.2	42.0	43.7	40.0
1998	48.4	45.0	52.5	39.9	46.2	38.1	35.9	38.4	38.1	39.9	40.2	46.9	42.0
1999	47.0	49.2	42.1	38.1	39.0	54.8	38.4	36.7	37.4	39.7	53.1	47.7	43.0
2000	52.1	51.3	42.5	51.1	39.7	35.2	33.9	38.2	45.1	44.7	47.9	46.9	44.0

<sup>&</sup>lt;sup>1</sup> Sum of monthly data exceeds total because harvest period longer than 1 month.

<sup>&</sup>lt;sup>2</sup> Kauai combined with Hawaii to avoid disclosure of individual operations.

DAIKON: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	unds	Cents per pound	1,000 dollars
State 1					
1996	280	11.8	3,300	28.5	941
1997	290	11.4	3,300	28.5	941
1998	300	10.0	3,000	31.5	945
1999	300	9.0	2,700	28.0	756
2000	350	8.9	3,100	28.0	868
Counties:					
Hawaii					
1996	185	10.8	2,000	27.2	544
1997	190	10.5	2,000	27.5	550
1998	200	8.5	1,700	30.0	510
1999	220	8.2	1,800	26.5	477
2000	250	8.4	2,100	26.5	557
Honolulu/Ka	auai/Maui <sup>2</sup>				
1996	95	13.7	1,300	30.5	397
1997	100	13.0	1,300	30.1	391
1998	100	13.0	1,300	33.5	435
1999	80	11.3	900	31.0	279
2000	100	10.0	1,000	31.3	313

#### DAIKON: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	l acres												
1996	26	16	25	21	20	23	21	28	26	29	22	23	280
1997	26	24	25	22	23	20	22	25	25	26	26	26	290
1998 <sup>1</sup>													
1999 ¹													
2000 <sup>1</sup>													
Processin Producti	g and fres												
1996	313	275	273	262	247	216	282	311	273	259	273	316	3,300
1997 1998 <sup>1</sup> 1999 <sup>1</sup> <b>2000</b> <sup>1</sup>	267	274	262	242	253	225	260	343	272	265	321	316	3,300
Farm pri	ce - cents	per pound											
1996	29.3	29.3	26.2	26.1	26.6	26.5	27.6	29.1	29.7	28.6	30.7	31.2	28.5
1997	33.5	33.1	32.1	30.0	28.4	29.9	27.7	25.1	26.0	25.5	26.3	26.6	28.5
1998 <sup>1</sup>													
1999 <sup>1</sup>													
2000 <sup>1</sup>													

<sup>&</sup>lt;sup>1</sup>Data not shown separately beginning 1998.

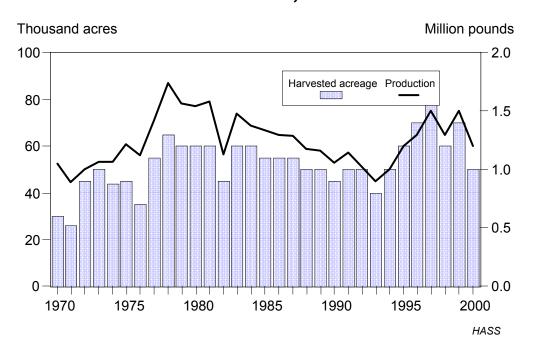
<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.
<sup>2</sup> Maui combined with Honolulu to avoid disclosure of individual operations. Kauai combined with Honolulu and Maui beginning 1995.

EGGPLANT: Acreage, yield, production, price, and value, by counties, 1996-2000

	U , J	, · · · · · · · · · · · · · · · · · · ·						
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales			
		1,000 po	unds	Cents per pound	1,000 dollars			
State 1								
1996	70	18.6	1,300	73.0	949			
1997	80	18.8	1,500	79.0	1,185			
1998	60	21.7	1,300	81.0	1,053			
1999	70	21.4	1,500	76.0	1,140			
2000	50	24.0	1,200	70.0	840			
Counties:								
Hawaii/Kaua	ai/Maui <sup>2</sup>							
1996	25	24.0	600	67.2	403			
1997	30	25.0	750	72.0	540			
1998	15	30.0	450	75.1	338			
1999	20	20.0	400	70.0	280			
2000	10	23.0	230	63.9	147			
Honolulu								
1996	45	15.6	700	78.0	546			
1997	50	15.0	750	86.0	645			
1998	45	18.9	850	84.1	715			
1999	50	22.0	1,100	78.2	860			
2000	40	24.3	970	71.4	693			

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

# EGGPLANT: Acreage and Production, State of Hawaii, 1970-2000



<sup>&</sup>lt;sup>2</sup> Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

# LETTUCES (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	ounds	Cents per pound	1,000 dollars
State 1					
1996	180	8.3	1,500	47.0	705
1997	145	11.0	1,600	46.0	736
1998	170	10.0	1,700	48.0	816
1999	170	8.8	1,500	49.0	735
2000	150	8.7	1,300	50.0	650
Counties:					
Hawaii					
1996	120	7.9	950	45.0	428
1997	90	12.6	1,130	44.5	503
1998	110	11.3	1,240	45.0	558
1999	90	11.0	990	46.0	455
2000	95	9.7	920	44.0	405
Honolulu/Ka	auai ²				
1996	35	10.0	350	56.3	197
1997	40	9.3	370	52.0	192
1998	45	9.0	405	57.8	234
1999³	80	6.4	510	54.9	280
2000 <sup>3</sup>	55	6.9	380	64.6	245
Maui					
1996	25	8.0	200	40.0	80
1997	15	6.7	100	41.0	41
1998	15	3.7	55	42.7	23
1999³					
2000³					

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

#### LETTUCES (HEAD, SEMI-HEAD): Acreage, production, and price, State of Hawaii, 1996-2000

	,	(,		,		g-, p-		,		,			
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	lacres												
1996	19	18	18	17	13	17	12	15	16	13	10	12	180
1997	13	13	14	13	12	10	12	12	12	9	12	13	145
1998	14	17	14	17	14	14	15	14	13	13	12	13	170
1999	10	14	14	14	17	15	16	13	15	12	16	14	170
2000	14	13	15	10	14	12	13	12	12	11	12	12	150
Productio	n - 1,000 p	oounds											
1996	178	156	127	149	143	108	126	99	109	125	87	93	1,500
1997	93	126	157	159	166	136	137	144	127	110	123	122	1,600
1998	139	150	153	216	167	131	143	129	119	114	111	128	1,700
1999	118	120	150	147	164	134	146	127	98	94	102	100	1,500
2000	107	114	126	112	122	125	115	111	99	91	87	91	1,300
Farm pric	e - cents p	er pound											
1996	43.8	45.6	45.8	45.4	48.3	48.5	47.1	48.9	49.4	48.6	45.5	50.2	47.0
1997	49.1	46.8	44.8	42.5	42.4	45.9	44.1	44.6	46.8	49.6	49.2	50.1	46.0
1998	49.1	49.1	48.2	46.8	50.9	48.8	46.3	47.1	45.6	47.8	47.6	47.7	48.0
1999	46.9	50.1	45.9	49.5	49.2	49.0	46.9	49.6	49.3	54.5	49.6	50.3	49.0
2000	76.9	48.0	47.2	47.2	47.3	46.8	46.1	47.5	48.1	47.2	48.3	51.1	50.0

<sup>&</sup>lt;sup>2</sup> Kauai combined with Honolulu to avoid disclosure of individual operations.

<sup>&</sup>lt;sup>3</sup> Maui combined with Honolulu and Kauai to avoid disclosure of individual operations.

DRY ONIONS: Acreage, yield, production, price, and value, by counties, 1996-2000

	• ,	• • • •	• •				
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales		
		1,000 pc	unds	Cents per pound	1,000 dollars		
State 1							
1996	210	9.5	2,000	118.0	2,360		
1997	185	9.2	1,700	98.0	1,666		
1998	270	13.0	3,500	73.0	2,555		
1999	310	11.0	3,400	67.0	2,278		
2000	340	12.6	4,300	71.0	3,053		
Counties:							
Hawaii/Hone	olulu/Kauai <sup>2</sup>						
1996	10	2.0	20	78.0	16		
1997	5	2.0	10	80.0	8		
1998	35	14.3	500	37.5	188		
1999	120	4.2	500	43.2	216		
2000	150	10.7	1,600	61.7	987		
Maui							
1996	200	9.9	1,980	118.4	2,344		
1997	180	9.4	1,690	98.1	1,658		
1998	235	12.8	3,000	78.9	2,367		
1999	190	15.3			2,062		
2000	190	14.2	2,700	71.1 <b>76.5</b>	2,066		

#### DRY ONIONS: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	acres												
1996	12	15	19	23	21	22	22	16	12	9	18	21	210
1997	6	3	14	16	19	22	32	18	16	11	14	14	185
1998	14	11	16	37	45	36	21	23	22	13	21	11	270
1999	11	11	29	51	52	42	21	21	13	17	24	18	310
2000	5	9	56	59	28	32	25	21	43	35	17	10	340
Productio	n - 1,000 p	ounds											
1996	108	120	176	201	176	217	200	156	126	114	256	150	2,000
1997	48	17	135	189	203	140	285	133	178	102	134	136	1,700
1998	129	138	299	607	611	534	227	279	186	179	158	153	3,500
1999	112	131	332	332	436	394	307	355	204	217	351	229	3,400
2000	61	97	880	771	422	667	337	296	241	241	166	121	4,300
Farm price	e - cents pe	er pound											
1996	126.4	145.3	140.9	133.7	100.3	77.3	76.7	84.2	130.9	141.9	147.6	133.1	118.0
1997	121.6	131.0	166.6	117.2	84.2	74.8	71.9	68.5	84.8	93.0	109.0	128.7	98.0
1998	143.4	142.9	142.2	76.7	45.2	37.5	39.3	49.7	48.2	70.0	110.7	122.6	73.0
1999	129.5	134.8	110.5	65.6	42.3	34.6	36.4	51.6	67.5	71.7	75.6	86.0	67.0
2000	105.7	126.9	89.7	64.6	51.7	56.6	57.3	64.4	56.7	71.8	94.6	108.5	71.0

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

#### GREEN ONIONS: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	unds	Cents per pound	1,000 dollars
State 1					
1996	190	7.4	1,400	94.0	1,316
1997	155	9.0	1,400	96.0	1,344
1998	180	8.3	1,500	86.0	1,290
1999	190	8.9	1,700	85.0	1,445
2000	150	10.0	1,500	86.0	1,290
Counties:					
Hawaii/Kaua	ni <sup>2</sup>				
1996	35	3.3	115	97.0	112
1997	25	4.6	115	93.0	107
1998	25	5.0	125	90.5	113
1999³	45	6.2	280	94.9	266
2000 <sup>3</sup>	25	8.0	200	99.0	198
Honolulu					
1996	140	8.3	1,165	92.0	1,072
1997	120	9.8	1,180	95.4	1,126
1998	140	8.9	1,250	84.5	1,056
1999	145	9.8	1,420	83.0	1,179
2000	125	10.4	1,300	84.0	1,092
Maui					
1996	15	8.0	120	110.0	132
1997	10	10.5	105	106.0	111
1998	15	8.3	125	96.5	121
1999 <sup>3</sup>	-		-		
2000 <sup>3</sup>					

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

### GREEN ONIONS: Acreage, production, and price, State of Hawaii, 1996-2000

					J / I		•	• ,			•		
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	d												
Harvested		10	47	47	47	47	40	4.4	4.5	4.5	40	40	400
1996	18	19	17	17	17	17	16	14	15	15	12	13	190
1997	9	11	11	10	11	13	15	14	16	14	15	16	155
1998	16	15	14	14	15	16	15	15	15	14	16	15	180
1999	15	15	15	16	16	15	24	15	13	15	15	16	190
2000	14	14	13	12	12	13	12	12	11	12	12	13	150
Productio	n - 1,000 p	oounds											
1996	123	120	123	134	134	127	118	114	120	131	77	79	1,400
1997	89	106	111	122	124	123	122	114	126	122	118	123	1,400
1998	129	124	114	117	123	128	125	126	125	120	139	130	1,500
1999	140	143	139	138	132	143	150	142	141	142	149	141	1,700
2000	118	122	123	109	126	140	129	128	114	123	127	141	1,500
Farm pric	e - cents p	er pound											
1996	105.3	105.8	99.3	90.5	86.0	88.3	86.6	86.2	87.5	87.6	99.7	115.4	94.0
1997	105.0	109.2	102.5	102.6	97.5	91.0	88.4	87.4	91.0	92.1	94.2	95.1	96.0
1998	91.3	88.0	90.2	95.8	89.2	86.6	79.2	79.0	76.5	82.1	85.5	88.7	86.0
1999	86.5	85.8	87.0	83.9	79.8	78.8	88.3	87.4	84.9	85.5	85.3	86.0	85.0
2000	92.7	92.8	87.8	90.1	86.3	83.4	81.4	82.1	83.2	82.6	82.2	88.3	86.0

<sup>&</sup>lt;sup>2</sup> Kauai combined with Hawaii to avoid disclosure of individual operations.

<sup>&</sup>lt;sup>3</sup> Maui combined with Hawaii and Kauai to avoid disclosure of individual operations.

#### GREEN PEPPERS: Acreage, yield, production, price, and value, by counties, 1996-2000

	•			, ,	•
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
State 1					
1996	230	11.3	2,600	48.0	1,248
1997	200	10.0	2,000	49.0	980
1998	170	17.6	3,000	50.0	1,500
1999	200	15.0	3,000	53.0	1,590
2000	200	14.0	2,800	55.0	1,540
Counties:					
Hawaii/Hone	olulu/Kauai ²				
1996	215	11.3	2,440	47.9	1,169
1997	195	9.9	1,940	49.0	951
1998 <sup>3</sup>					
1999 <sup>3</sup>					
2000 <sup>3</sup>					
Maui					
1996	15	10.7	160	49.2	79
1997	5	12.0	60	50.8	30
1998 <sup>3</sup>	-	-			
1999 <sup>3</sup>					
2000 <sup>3</sup>					

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

### GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	l acres 1												
1996	21	25	25	25	26	26	25	14	17	25	17	3	230
1997	21	17	16	10	13	10	20	19	25	21	20	22	200
1998	21	18	16	11	14	10	20	19	25	21	20	23	170
1999	19	20	19	19	17	17	19	18	22	19	18	18	200
2000	24	20	20	20	19	19	17	18	16	17	16	16	200
Productio	n - 1,000 p	ounds											
1996	274	265	300	281	144	263	245	187	227	208	183	23	2,600
1997	57	22	145	106	206	232	268	260	144	112	199	249	2,000
1998	235	192	248	251	249	257	293	177	307	253	256	282	3,000
1999	231	231	276	247	197	258	251	264	228	260	278	279	3,000
2000	246	238	259	285	212	216	218	222	202	212	214	276	2,800
Farm price	e - cents pe	er pound											
1996	48.0	47.6	50.1	50.2	48.3	47.7	47.9	44.5	45.2	43.6	51.7	71.1	48.0
1997	60.2	65.9	48.0	47.6	48.0	45.9	48.1	45.2	45.4	47.0	53.3	54.7	49.0
1998	54.2	57.8	51.0	49.6	58.6	47.0	51.4	43.5	46.5	45.6	47.8	48.6	50.0
1999	46.2	44.0	46.1	54.7	58.1	55.3	60.5	48.5	46.5	51.6	62.9	59.4	53.0
2000	59.1	58.4	55.9	66.4	54.4	52.6	51.2	51.0	45.6	51.1	51.7	56.6	55.0

<sup>&</sup>lt;sup>1</sup> Sum of monthly data exceeds total because harvest period longer than 1 month.

<sup>&</sup>lt;sup>2</sup> Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

<sup>&</sup>lt;sup>3</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

ROMAINE: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
	Tidi vested deles	1,000 po		Cents per pound	1,000 dollars
State 1					
1996	175	9.7	1,700	39.0	663
1997	165	11.5	1,900	39.0	741
1998	220	15.0	3,300	38.0	1,254
1999	240	11.2	2,700	37.0	999
2000	190	10.5	2,000	43.0	860
Counties:					
Hawaii/Hon	olulu <sup>2</sup>				
1996	90	8.2	740	43.5	322
1997	75	10.0	750	43.6	327
1998	110	12.7	1,400	43.4	608
1999	145	11.0	1,600	40.4	646
2000	135	10.4	1,400	44.0	616
Maui					
1996	85	11.3	960	35.5	341
1997	90	12.8	1,150	36.0	414
1998	110	17.3	1,900	34.0	646
1999	95	11.6	1,100	32.0	352
2000	55	10.9	600	40.7	244

#### ROMAINE: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	dacres												
1996	15	21	21	21	17	13	12	11	11	12	10	11	175
1997	12	17	15	14	12	11	12	13	12	13	15	19	165
1998	22	24	22	19	17	19	16	15	17	15	16	18	220
1999	21	23	27	27	24	24	23	20	13	11	14	13	240
2000	22	21	18	14	17	12	11	13	13	14	18	17	190
Productio	n - 1,000 p	ounds											
1996	130	148	228	226	179	148	128	98	113	108	95	99	1,700
1997	91	125	178	211	179	136	153	146	116	131	163	271	1,900
1998	313	325	305	352	290	269	232	259	259	215	252	229	3,300
1999	312	264	348	324	239	250	196	153	124	160	179	151	2,700
2000	201	202	236	219	214	129	115	105	119	129	116	215	2,000
Farm pric	e - cents p	er pound											
1996	40.2	38.8	43.6	33.4	35.9	39.7	35.9	40.2	38.7	38.2	40.7	46.9	39.0
1997	46.9	43.6	38.4	34.8	42.2	34.8	39.9	34.9	40.2	44.1	44.8	33.4	39.0
1998	37.2	25.9	29.6	42.8	42.6	48.0	46.0	40.3	39.3	38.8	32.1	36.0	38.0
1999	34.9	29.8	30.1	34.4	40.0	43.7	39.4	39.2	40.4	42.4	40.6	41.6	37.0
2000	40.9	42.7	38.9	41.0	43.1	41.4	41.2	40.1	42.2	43.8	44.3	54.5	43.0

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Honolulu combined with Hawaii to avoid disclosure of individual operations beginning 1995.

#### SWEET POTATOES: Acreage, yield, production, price, and value, by counties, 1996-2000

	· · · · · · · · · · · · · · · · · · ·	• • • • •	• •				
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales		
		1,000 pc	ounds	Cents per pound	1,000 dollars		
State 1							
1996	280	8.9	2,500	52.0	1,300		
1997	240	10.0	2,400	52.0	1,248		
1998	190	10.0	1,900	56.0	1,064		
1999	340	8.5	2,900	63.0	1,827		
2000	260	9.6	2,500	60.0	1,500		
Counties:							
Hawaii/Hon	olulu/Kauai <sup>2</sup>						
1996	185	7.6	1,400	53.0	742		
1997	170	9.4	1,600	51.0	816		
1998	125	9.2	1,150	55.5	638		
1999	270	8.5	2,300	63.8	1,467		
2000	195	9.6	1,880	60.0	1,128		
Maui							
1996	95	11.6	1,100	50.7	558		
1997	70	11.4	800	54.0	432		
1998	65	11.5	750	56.8	426		
1999	70	8.6	600	60.0	360		
2000	65	9.5	620	60.0	372		

<sup>&</sup>lt;sup>1</sup>Sum of county estimates may not add to State total due to rounding.

### SWEET POTATOES: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	lacres												
1996	30	32	30	22	20	18	28	27	19	18	20	16	280
1997 1998 <sup>1</sup> 1999 <sup>1</sup> <b>2000</b> <sup>1</sup>	22	22	20	21	17	18	19	19	20	22	22	18	240
Productio	n - 1.000 p	ounds											
1996	217	166	252	174	262	179	259	247	209	211	173	151	2,500
1997 1998 <sup>1</sup> 1999 <sup>1</sup> <b>2000</b> <sup>1</sup>	163	114	131	189	216	162	261	254	228	213	253	216	2,400
Farm pric	e - cents p	er pound											
199 <del>6</del>	51.8	51.9	51.7	51.2	51.4	51.0	51.7	51.1	51.4	51.8	53.2	57.7	52.0
1997 1998 <sup>1</sup> 1999 <sup>1</sup> <b>2000</b> <sup>1</sup>	54.2	56.0	56.3	56.3	57.0	56.0	51.9	48.4	49.7	47.9	48.5	49.1	52.0

<sup>&</sup>lt;sup>1</sup> Data not shown separately beginning 1998.

<sup>&</sup>lt;sup>2</sup> Kauai combined with Hawaii (1989-1992) to avoid disclosure of individual operations. Honolulu combined with Hawaii and Kauai beginning 1993.

ITALIAN SQUASH: Acreage, yield, production, price, and value, by counties, 1996-2000

	•	, <b>,</b> , ,	· • · ·	, ,	<u> </u>		
Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales		
		1,000 pc	ounds	Cents per pound	1,000 dollars		
State 1							
1996	80	8.8	700	48.0	336		
1997	200	7.0	1,400	50.0	700		
1998	170	8.8	1,500	49.0	735		
1999	180	10.6	1,900	45.0	855		
2000	180	12.2	2,200	47.0	1,033		
Counties:							
Hawaii/Hono	olulu/Kauai <sup>2</sup>						
1996	45	7.1	320	48.5	155		
1997	160	6.6	1,050	49.7	522		
1998	120	8.6	1,030	48.5	500		
1999	110	10.5	1,150	45.3	521		
2000	115	10.6	1,220	45.3	553		
Maui							
1996	35	10.9	380	47.5	181		
1997	40	8.8	350	51.0	179		
1998	50	9.4	470	50.0	235		
1999	70	10.7	750	44.5	334		
2000	65	15.1	980	49.0	480		

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<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

TARO: Number of farms, acreage, marketings, price, and value, by counties, 1996-2000

		Ad	creage in cro	pp 1		Marketings			Farm price		Value
Year	Farms	Poi taro	Chinese taro	Total	Fresh	Processed	Total	Poi taro	Chinese taro	All	of sales
	Number		Acres			1,000 pounds		(	Cents per pound	d	1,000 dollars
State											
1996	180	350	180	530	500	5,200	5,700	49.6	45.8	49.0	2,793
1997	160	370	80	450	400	5,100	5,500	51.5	46.9	51.0	2,805
1998	180	400	90	490	300	5,700	6,000	53.0	53.0	53.0	3,180
1999	190	420	80	500	300	6,500	6,800	53.0	53.5	53.0	3,604
2000	185	430	40	470	200	6,800	7,000	53.3	45.3	53.0	3,710
Counties Hawaii	<b>S</b> :										
1996	100	60	170	230	490	910	1,400	56.0	44.7	49.2	689
1997	85	80	70	150	390	910	1,300	60.0	46.1	53.7	698
1998	100	90	70	160	250	850	1,100	61.0	53.0	57.0	627
1999	100	100	80	180	200	900	1,100	61.0	53.2	57.5	632
2000	85	80	40	120	200	700	900	61.6	45.3	56.2	506
Honolu	lu/Maui <sup>2</sup>										
1996	26	80	5	85	10	1,090	1,100	51.1	61.2	51.6	568
1997	25	80	5	85	10	890	900	49.5	90.0	50.0	450
1998	25	80	15	95	50	1,050	1,100	52.4	53.5	52.5	577
1999	25	90	*	90	100	1,300	1,400	52.4	54.9	52.6	736
2000	30	100	*	100	*	1,300	1,300	52.6	3	52.6	684
Kauai											
1996	54	210	5	215	*	3,200	3,200	48.0	3	48.0	1,536
1997	50	210	5	215	*	3,300	3,300	50.1	3	50.2	1,657
1998	55	230	5	235	*	3,800	3,800	52.0	3	52.0	1,976
1999	65	230	*	230	*	4,300	4,300	52.0	3	52.0	2,236
2000	70	250	*	250	*	4,800	4,800	52.5	3	52.5	2,520

<sup>\* =</sup> Less than 5,000 pounds.

<sup>1</sup> Survey conducted in November each year. Does not include acreage used primarily for leaf production.

<sup>2</sup> Maui combined with Honolulu to avoid disclosure of individual operations.

<sup>3</sup> Data not shown separately but accounted for in State average.

TOMATOES: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	unds	Cents per pound	1,000 dollars
State 1					
1996	280	25.0	7,000	53.0	3,710
1997	340	30.0	10,200	54.0	5,508
1998	300	34.0	10,200	55.0	5,610
1999	420	40.0	16,800	47.0	7,896
2000	500	33.0	16,500	52.0	8,580
Counties:					
	olulu/Kauai ²				
1996	65	21.8	1,420	67.5	959
1997	95	22.4	2,130	67.8	1,444
1998	145	30.3	4,400	61.2	2,693
1999 <sup>3</sup>					
2000 <sup>3</sup>					
Maui					
1996	215	26.0	5,580	49.3	2,751
1997	245	32.9	8,070	50.4	4,064
1998	155	37.4	5,800	50.3	2,917
1999³			-,		,
2000 <sup>3</sup>					

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding.

TOMATOES: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	d acres 1												
1996	36	13	31	36	31	34	24	21	22	22	39	37	280
1997	36	33	37	35	32	29	32	26	36	28	40	40	340
1998	44	43	46	40	30	22	13	11	9	25	57	46	300
1999	48	48	38	37	41	37	33	32	38	41	45	50	420
2000	49	49	43	50	58	56	33	40	42	47	44	48	500
Productio	n - 1,000 µ	oounds											
1996	459	398	771	937	755	603	711	608	506	523	336	393	7,000
1997	610	770	835	1,190	1,281	885	906	482	532	592	949	1,168	10,200
1998	853	1,060	1,264	1,196	880	915	139	153	150	781	1,287	1,522	10,200
1999	1,413	1,493	1,599	1,423	1,386	1,650	1,339	1,582	1,007	1,436	1,182	1,290	16,800
2000	1,138	1,318	1,208	1,347	1,423	1,414	1,252	1,372	1,173	1,381	1,727	1,747	16,500
Farm pric	e - cents p	er pound											
1996	48.7	46.7	73.6	75.5	56.5	42.7	36.2	37.0	39.2	47.6	52.6	60.4	53.0
1997	52.8	58.7	65.8	59.4	49.1	50.5	45.1	48.3	52.8	44.7	58.0	57.3	54.0
1998	51.4	47.7	54.9	51.6	57.9	48.2	65.0	75.2	73.8	58.2	57.5	58.5	55.0
1999	56.6	45.1	42.1	48.7	51.4	50.1	43.3	39.1	48.5	38.3	51.9	52.0	47.0
2000	46.4	43.9	46.8	56.0	49.9	45.8	43.0	46.0	52.3	64.9	59.8	62.1	52.0

<sup>&</sup>lt;sup>1</sup> Sum of monthly data exceeds total because harvest period longer than 1 month.

<sup>&</sup>lt;sup>2</sup> Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations beginning 1994.

<sup>&</sup>lt;sup>3</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

#### WATERMELONS: Acreage, yield, production, price, and value, by counties, 1996-2000

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 po	unds	Cents per pound	1,000 dollars
State 1					
1996	760	22.5	17,100	16.5	2,822
1997	840	20.0	16,800	18.0	3,024
1998	790	20.0	15,800	21.0	3,318
1999	570	20.0	11,400	21.0	2,394
2000	560	22.5	12,600	25.0	3,150
Counties: Hawaii/Kaua	i <sup>2</sup>				
1996	10	7.0	70	34.6	24
1997	10	10.5	105	33.4	35
1998	5	14.0	70	21.0	15
1999³	10	20.0	200	21.2	42
2000 <sup>3</sup>	5	40.0	200	25.0	50
Honolulu					
1996	690	22.1	15,280	16.5	2,521
1997	825	20.1	16,600	17.9	2,971
1998	775	20.1	15,590	21.0	3,274
1999	560	20.0	11,200	21.0	2,352
2000	555	22.3	12,400	25.0	3,100
Maui					
1996	60	29.2	1,750	15.8	277
1997	5	19.0	95	18.9	18
1998	10	14.0	140	21.0	29
1999 <sup>3</sup>					
2000 <sup>3</sup>					

<sup>&</sup>lt;sup>1</sup> Sum of county estimates may not add to State total due to rounding. <sup>2</sup> Kauai combined with Hawaii to avoid disclosure of individual operations. <sup>3</sup> Maui combined with Hawaii and Kauai to avoid disclosure of individual operations.

#### WATERMELONS: Acreage, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested	l acres 1												
1996	14	8	7	22	75	141	191	214	55	41	16	0	760
1997	0	*	*	31	180	170	184	145	133	42	12	0	840
1998	*	0	0	37	85	143	173	160	125	60	16	*	790
1999	*	3	6	23	149	132	83	72	55	35	12	*	570
2000 <sup>2</sup>													
Productio	n - 1,000 p	oounds											
1996	110 ′	60	88	110	3,575	4,200	3,055	4,365	717	692	128	0	17,100
1997	0	2	2	39	3,142	4,052	3,887	3,441	1,467	627	141	0	16,800
1998	*	0	0	900	2,207	2,530	3,075	3,886	2,518	570	114	*	15,800
1999	66	42	44	523	2,147	2,040	1,662	2,206	1,827	785	50	8	11,400
2000 <sup>2</sup>													
Farm pric	<b>e</b> - cents p	er pound											
199 <b>6</b>	33.6	33.7	33.7	31.7	17.5	14.8	15.2	15.3	16.3	25.7	25.8	0	16.5
1997	0	22.8	22.8	27.4	22.0	16.0	16.5	16.4	19.1	24.6	25.2	0	18.0
1998	0	0	0	32.7	26.3	20.8	18.7	19.0	17.8	21.6	23.6	0	21.0
1999	18.8	25.1	27.6	30.4	25.8	20.8	18.4	18.2	17.0	23.9	29.1	25.0	21.0
2000 <sup>2</sup>													

<sup>\* =</sup> Less than minimum amount to be estimated.

<sup>&</sup>lt;sup>1</sup> Sum of monthly data exceeds total because harvest period longer than 1 month. <sup>2</sup> Data not shown separately beginning 2000.

# OTHER VEGETABLES: Acreage, yield, production, price, and value, State of Hawaii, 1996-2000

State of Hawaii, 1930-2000									
Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales				
•		1,000 pc	ounds	Cents per pound	1,000 dollars				
Bittermelon									
1996	15	10.0	150	105.0	158				
1997	20	9.0	180	95.0	171				
1998	35	10.0	350	80.0	280				
1999	40	13.8	550	74.0	407				
2000	20	15.0	300	85.0	255				
Broccoli									
1996	150	3.3	500	51.0	255				
1997	140	3.2	450	54.0	243				
1998	110	3.2	350	50.0	175				
1999	75	4.0	300	50.0	150				
2000	100	4.0	400	60.0	240				
Burdock									
1996	20	15.0	300	180.0	540				
1997	15	14.7	220	145.0	319				
1998	15	13.3	200	160.0	320				
1999	20	12.5	250	150.0	375				
2000	15	12.0	180	150.0	270				
Cabbage, mus	stard								
1996	200	8.5	1,700	43.0	731				
1997	150	10.0	1,500	46.0	690				
1998	140	10.7	1,500	40.0	600				
1999	140	11.4	1,600	39.0	624				
2000	130	11.5	1,500	43.0	645				
Cauliflower									
1996	10	12.0	120	42.5	51				
1997	15	13.3	200	45.0	90				
1998	10	13.0	130	60.0	78				
1999 ¹									
2000 <sup>1</sup>									
Dasheen									
1996	7	14.3	100	94.0	94				
1997	5	19.0	95	99.0	94				
1998 ¹									
1999 ¹									
2000 <sup>1</sup>									
See footnotes a	at end of table.				Continu				

See footnotes at end of table. Continued

# OTHER VEGETABLES: Acreage, yield, production, price, and value, State of Hawaii, 1996-2000 -- Continued

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
Peas, Chinese	9				
1996	5	5.0	25	180.0	45
1997	5	5.0	25	170.0	43
1998 <sup>1</sup>					
1999 <sup>1</sup>					
2000 <sup>1</sup>					
Pumpkins					
1996	30	8.3	250	30.0	75
1997	65	6.9	450	29.0	131
1998	50	11.0	550	20.0	110
1999	45	10.0	450	39.0	176
2000	15	11.3	170	45.1	77
Radish					
1996	20	10.0	200	58.0	116
1997	15	10.7	160	57.0	91
1998	15	10.0	150	59.0	89
1999	15	8.7	130	60.0	78
2000	10	10.0	100	63.0	63
Squash, Orier	ntal (Hyotan and Togan)				
1996	10	20.0	200	42.0	84
1997	25	12.0	300	42.0	126
1998	15	16.0	240	37.0	89
1999	30	20.0	600	36.0	216
2000	25	24.0	600	37.0	222

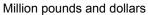
<sup>&</sup>lt;sup>1</sup> Data not shown separately to avoid disclosure of individual operations.

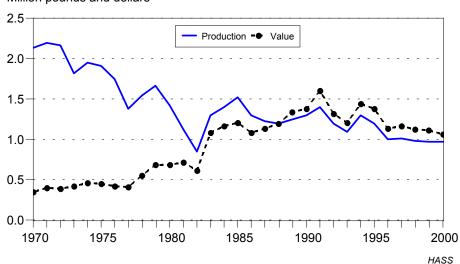
### PROCESSED CHINESE CABBAGE AND DAIKON, WATERCRESS

#### PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 1996-2000

		Chinese cabbag	е	Daikon			
Year	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales	
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars	
1996	1,250	29.0	363	500	27.0	135	
1997	1,200	23.0	276	700	27.5	192	
1998	1,200	19.0	228	550	30.5	168	
1999	1,100	19.0	209	400	27.7	111	
2000	1,000	21.0	210	350	28.0	98	

### WATERCRESS: Production and Farm Value, State of Hawaii, 1970-2000





#### WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1996-2000

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
1996	35	1,000	114.0	1,140
1997	35	1,020	115.0	1,173
1998	35	980	115.0	1,127
1999	35	970	115.0	1,116
2000	45	970	110.0	1,067

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#### 2000 CATTLE, MILK, AND HOG HIGHLIGHTS

#### **CATTLE**

Beef production, during 2000, totaled 39.8 million pounds, live weight, 5 percent above 1999 marketings. The increase in production resulted from more cattle and calves marketed overall as well as from proportionally more cattle marketed than lighter weight calves. Exports during 2000 totaled 51,000 head, accounting for about 70 percent of all cattle sold. The majority of exports were calves weighing less than 500 pounds, live weight. Local commercial slaughter, during 2000, dipped 3 percent from 1999 to 17,000 head.

The annual average price for all cattle and calves increased 9 percent to \$48.20 per cwt., an increase resulting from improved prices for calves exported. Cash revenues for 2000 totaled \$19.2 million, an increase of 14 percent from 1999. The inventory of cattle and calves on Hawaii's ranches totaled 150,000 head on January 1, 2001, a decline of 9 percent and 13 percent from 2000 and 1999, respectively. The island of Hawaii which accounts for more than 70 percent of the State's total, recorded a 4 percent drop in inventory to 110,100 head. The third year of drought forced many ranchers to reduce their herds due to the lack of forage supplies.

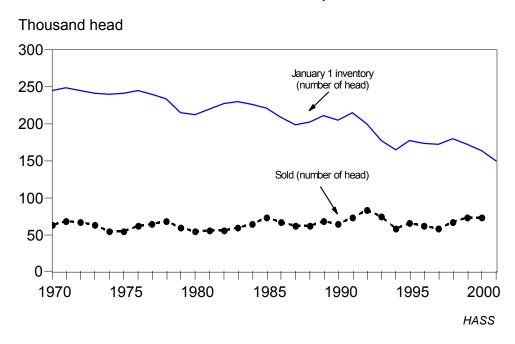
#### **MILK**

In 2000, Hawaii's dairy cows produced 116.3 million pounds of milk compared to 119.7 million pounds produced a year earlier. About 67 percent of the milk was produced on Oahu, outer islands accounted for the remainder. Statewide revenues for milk sold at the farm level during the year totaled \$28.1 million, 10 percent below the 1999 receipt, and the second year of decline. Producers received an average \$24.50 per hundredweight for milk delivered to the processors, \$2.00 less than a year ago. The number of milk cows was down 500 head to 8,100 head in 2000. The annual average output per cow is 14,358 pounds compared to 13,919 pounds produced in 1999. Kauai discontinued producing milk in September 2000.

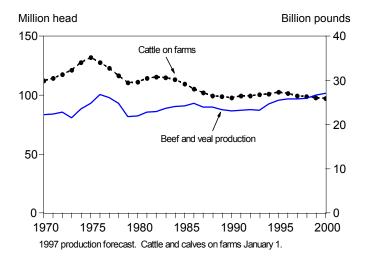
#### **HOGS AND PIGS**

Pork production and the number of hogs marketed during 2000 declined 11 percent from 1999 to 5.6 million pounds and 31,000 head, respectively. Cash receipts from marketings totaled \$4.4 million, a decrease of 13 percent from 1999. There were 26,00 hogs and pigs on hand on December 1, 2000, 2,000 fewer than 1999. The island of Oahu inventory decreased to 15,000 head, less than 60 percent of the State inventory, a drop resulting from a variant-like strain of Porcine Reproductive and Respiratory Syndrome (PRRS) that occurred early in the year.

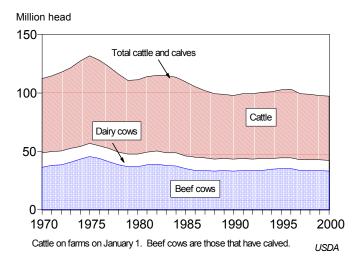
# Cattle Inventory and Marketings, State of Hawaii, 1970-00



#### U.S. Cattle Numbers and Beef Production



U.S. Cattle on Farms



# CATTLE AND CALVES: January 1 inventory by sex classes and weight, by counties, 1997-2001

	All cattle		I cows and heife have calve			Heifers 500 po	unds and over		Steers 500 lbs.	Bulls 500 lbs.	Steers, heifers,
Year	and calves	Total	Beef cows	Milk cows	Total	Beef cow replace- ments	Milk cow replace- ments	Other	and over	and over	and bulls under 500 lbs.
	•	•	•		•	1,000 head	•	•		•	
State 1											
1997	172	93	83	10	27	16	5	6	8	5	39
1998	180	97	88	9	28	16	4	8	10	5	40
1999	173	95	86	9	25	16	4	5	8	5	40
2000	164	93	84	9	24	14	4	6	8	4	35
2001	150	88	81	7	18	10	3	5	6	4	34
Countie	es:										
Hawai	i										
1997	119.1	63.8	62.0	1.8	17.8	12.5	1.4	3.9	4.7	3.9	28.9
1998	124.9	67.6	65.4	2.2	18.2	11.6	.8	5.8	6.0	3.5	29.6
1999	119.8	65.8	63.9	1.9	16.1	11.8	1.1	3.2	5.1	3.5	29.3
2000	114.4	65.4	63.4	2.0	16.5	10.9	1.4	4.2	5.2	3.0	24.3
2001	110.1	66.6	64.0	2.6	12.5	7.3	1.9	3.3	3.6	3.4	24.0
Honoli	ulu										
1997	13.1	7.7	1.4	6.3	2.7	.3	2.3	.1	.2	.2	2.3
1998	13.0	7.0	2.0	5.0	3.4	.9	2.3	.2	.3	.2	2.1
1999	13.4	7.2	2.0	5.2	3.2	.8	2.1	.3	.3	.2	2.5
2000	12.8	7.7	2.1	5.6	2.2	.4	1.6	.2	.2	.2	2.5
2001	9.4	5.5	.8	4.7	1.7	.2	1.3	.2	.1	.1	2.0
Kauai											
1997	11.3	4.8	4.2	.6	2.5	.9	.7	.9	1.1	.3	2.6
1998	11.4	5.0	4.4	.6	2.2	.9	.4	.9	1.5	.4	2.3
1999	10.6	4.9	4.2	.7	1.8	.8	.3	.7	1.1	.3	2.5
2000	10.5	4.9	4.1	.8	1.8	.7	.2	.9	1.1	.3	2.4
2001	10.8	5.0	5.0	*	1.7	.9	0	.8	1.1	.3	2.7
Maui											
1997	28.5	16.7	15.8	.9	3.9	2.2	.5	1.2	1.8	.7	5.4
1998	30.7	17.6	16.6	1.0	4.1	2.4	.6	1.1	1.8	.8	6.4
1999	29.2	17.0	16.1	.9	4.2	2.4	.6	1.2	1.6	.7	5.7
2000	26.3	14.9	14.8	.1	3.5	2.1	.4	1.0	1.3	.5	6.1
2001	19.7	11.1	11.1	*	2.1	1.3	.2	.6	1.1	.5	4.9

<sup>\* =</sup> Less than 50.

Sum of county estimates may not add to State total due to rounding.

CATTLE AND CALVES: Number of operations, number and pounds sold, price, and value, by counties, 1996-2000

Year	Operations	Number sold 12	Pounds sold (live weight) <sup>3</sup>	Farm price (live weight)⁴	Value of sales
	Number	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
State					
1996	850	62	38,510	34.20	13,175
1997	830	58	35,890	39.90	14,323
1998	830	67	40,060	42.10	16,861
1999	800	74	38,070	44.10	16,806
2000	800	73	39,840	48.20	19,204
Counties: Hawaii					
1996	470	44.7	25,133	32.50	8,168
1997	480	42.7	24,362	39.60	9,658
1998	480	48.6	26,934	42.00	11,312
1999	470	56.7	27,736	44.60	12,363
2000	470	55.0	28,660	49.30	14,138
Honolulu					
1996	60	2.8	2,481	28.70	713
1997	50	2.3	1,911	30.40	581
1998	50	2.0	1,650	31.20	514
1999	60	2.0	1,522	36.20	551
2000	60	1.9	1,748	31.80	556
Kauai					
1996	130	2.8	2,203	39.40	869
1997	120	3.3	2,485	43.50	1,082
1998	120	4.0	3,035	45.90	1,394
1999	100	3.3	2,272	45.20	1,027
2000	100	4.1	2,725	47.00	1,280
Maui					
1996	190	11.7	8,693	39.40	3,425
1997	180	9.7	7,132	42.10	3,003
1998	180	12.4	8,441	43.10	3,641
1999	170	12.0	6,540	43.80	2,865
2000	170	12.0	6,707	48.20	3,230

<sup>&</sup>lt;sup>1</sup> Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves, but excludes inter-farm sales.

<sup>&</sup>lt;sup>2</sup> Sum of county estimates may not add to State total due to rounding.

<sup>&</sup>lt;sup>3</sup> Excludes custom slaughter for use on farms where produced.

<sup>&</sup>lt;sup>4</sup>Prices are equivalent delivered slaughterhouse for sales on county of production and delivered shipper's dock for interisland and out-of-State sales.

## CATTLE: Number of cattle sold, pounds, price, and value, State of Hawaii, 1996-2000

Year	Number sold <sup>1</sup>	Pounds sold (live weight) <sup>2</sup>	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
1996	28	24,570	34.90	8,575
1997	24	20,930	37.70	7,891
1998	27	23,660	37.30	8,825
1999	21	17,400	36.00	6,264
2000	27	22,360	38.20	8,542

<sup>&</sup>lt;sup>1</sup> Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves, but excludes inter-farm sales.

## CALVES: Number of calves sold, pounds, price, and value, State of Hawaii, 1996-2000

Year	Number sold	Pounds sold Farm price (live weight)		Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
1996	34	13,940	33.00	4,600
1997	34	14,960	43.00	6,433
1998	40	16,400	49.00	8,036
1999	53	20,670	51.00	10,542
2000	46	17,480	61.00	10,663

### CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 1996-2000

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
				1,000 head			
1996	174	74	*	62	1	13	172
1997	172	77	*	58	1	10	180
1998	180	73	*	67	1	12	173
1999	173	73	*	74	1	7	164
2000	164	69	*	73	1	9	150

<sup>\* =</sup> Less than 500.

### CATTLE AND CALVES: Exports, State of Hawaii, 1996-2000

Year Total		Cattle <sup>1</sup> Calves <sup>2</sup>		Steers	Heifers	
			1,000 head			
1996	38	4	34	27	11	
1997	39	5	34	25	14	
1998	44	4	40	25	19	
1999	57	4	53	33	24	
2000	51	5	46	30	21	

<sup>&</sup>lt;sup>1</sup>500 pounds or more.

<sup>&</sup>lt;sup>2</sup> Excludes custom slaughter for use on farms where produced.

<sup>&</sup>lt;sup>2</sup>499 pounds or less.

<b>CATTLE: Commercial sla</b>	ighter and farm price.	State of Hawaii.	, 1996-2000 <sup>1</sup>
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	orti I = 1. Commorciai ciaaginor ana iami prico, ciaic ci riaman, roco ecc												
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of	head 2 -	1,000 h	nead										
1996	1.4	1.5	1.4	1.3	1.4	1.3	1.8	1.6	1.5	1.2	1.4	1.6	17.3
1997	1.8	1.4	1.7	1.7	1.5	1.4	1.5	1.7	1.6	1.7	1.5	1.6	19.2
1998	1.6	1.7	1.7	1.6	1.5	1.5	1.7	1.4	1.5	1.5	1.2	1.2	18.2
1999	1.2	1.3	1.5	1.4	1.4	1.4	1.5	1.8	1.5	1.5	1.5	1.5	17.5
2000	1.4	1.3	1.4	1.4	1.8	1.6	1.6	1.5	1.3	1.3	1.2	1.1	17.0
Pounds sla	aughter	ed, dres	sed we	ight <sup>23</sup> -	1,000 pc	ounds							
1996	754	810	800	726	770	680	962	855	777	641	735	866	9,376
1997	955	780	903	937	838	786	858	924	903	922	840	899	10,545
1998	861	897	945	872	808	821	892	782	806	822	673	684	9,862
1999	674	662	766	712	706	768	784	915	742	733	732	753	8,946
2000	699	671	738	713	894	831	809	781	693	693	632	658	8,810
Average fa	arm price	e, dress	ed weic	ıht - cen	ts per po	ound							
1996	69.5	63.5	67.5	63.5	63.0	66.5	60.0	67.0	63.5	65.0	66.5	63.0	65.0
1997	65.0	63.0	67.0	67.0	67.0	64.0	68.0	66.0	67.5	64.0	66.0	67.0	66.0
1998	67.0	65.0	63.5	64.5	64.0	64.5	61.5	66.0	62.5	64.0	65.5	63.5	64.5
1999	63.5	63.5	62.5	64.0	63.5	63.5	62.5	61.5	60.5	61.0	60.5	60.5	62.0
2000	61.5	62.5	60.5	63.0	60.0	62.0	62.0	61.5	61.5	64.0	64.5	61.5	62.0

<sup>&</sup>lt;sup>1</sup> Includes custom slaughter for home use.

CATTLE: Local marketings and farm price, State of Hawaii, 1989-2000 1

	S	teers and heifers	3	Cows			
Year	Marketings	Avera	age price	Marketings	Average price		
	(dressed weight)	Live weight <sup>2</sup>	Dressed weight	(dressed weight)	Live weight <sup>2</sup>	Dressed weight	
	1,000 pounds	Cents	per pound	1,000 pounds	Cents	per pound	
1989	28,797	50.8	92.5	4,655	33.4	61.0	
1990	23,820	51.3	93.5	4,371	34.2	62.5	
1991	20,951	51.4	93.5	4,257	34.4	62.5	
1992	15,354	49.9	91.0	5,065	33.7	61.5	
1993	4,805	46.4	84.5	5,065	34.7	63.0	
1994	3,818	47.6	87.0	4,478	32.9	60.0	
1995	2,596	49.3	89.5	4,529	29.8	54.5	
1996	3,777	47.3	86.0	5,486	27.5	50.0	
1997	3,762	47.1	86.0	5,029	28.8	52.5	
1998	4,337	45.6	83.0	6,282	27.2	49.5	
1999	2,980	44.8	81.5	4,620	27.6	50.0	
2000	5,308	44.3	80.5	4,501	27.4	50.0	

<sup>&</sup>lt;sup>1</sup>Excludes out-of-State shipments.

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<sup>&</sup>lt;sup>2</sup> Sum of monthly estimates may not add to annual total due to rounding.
<sup>3</sup> To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.

<sup>&</sup>lt;sup>2</sup>To convert live weight to dressed weight, divide live weight by 0.549 or multiply by a factor of 1.8215.

## EQUINE: January 1 inventory, number sold, and value, State of Hawaii, 1998-2001

Year	Inventory	Number sold	Value of Sales		
	1,000 head	1,000 head	1,000 dollars		
1998 1999 2000 <sup>1</sup> <b>2001</b> <sup>1</sup>	7.0 7.0	0.4 0.4	800 900		

<sup>&</sup>lt;sup>1</sup> Next survey 2002 Agricultural Census.

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 1996-2000

Year	Opera-	Number of	Yield per	Production		Average	Average price <sup>1</sup>		Value of production	
real	tions	colonies	colony (honey)	Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	
	Number	Thousands	Pounds	بر 1,000	oounds	Cents per p	ound	1,000	dollars	
1996	25	8	155	1,240	18	81	217	1,004	39	
1997	23	9	146	1,314	17	86	224	1,130	38	
1998	29	8	118	944	15	75	173	708	26	
1999	28	8	80	640	15	80	173	512	26	
2000	33	7	112	784	8	81	200	635	16	

<sup>&</sup>lt;sup>1</sup> Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

# SHEEP AND LAMBS: January 1 inventory by class, State of Hawaii, 1997-2001

	All sheep		E		Lamb					
Year	and lambs	Total	Ewes 1 year +	Rams 1 year +	Replacement lambs	Total	Total Lambs		crop	
				1	,000 head				_	
1997	21	15	10	4	1	6	4	2	5	
1998	23	16	11	4	1	7	5	2	5	
1999	19	13	9	3	1	6	5	1	5	
2000	18	13	9	3	1	5	4	1	5	
2001	20	13	7	3	3	7	5	2	5	

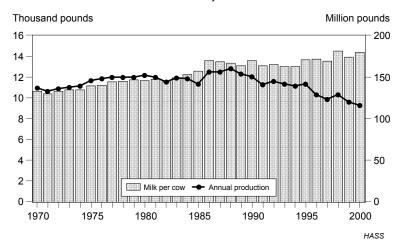
MILK: Number of operations, number of milk cows, production, sales, price, and value, by counties, 1996-2000

Year	Operations <sup>1</sup>	Annual average milk cows	Milk per cow	Production <sup>2</sup>	Sold <sup>2</sup>	Average price	Value of sales
	Num	ber	Pounds	Million pou	nds	Dollars per hundredweight	1,000 dollars
State							
1996	60	9,400	13,723	129.0	125.9	23.22	29,234
1997	50	9,100	13,516	123.0	119.3	24.71	29,479
1998	50	8,900	14,494	129.0	126.3	26.36	33,293
1999	50	8,600	13,919	119.7	118.0	26.50	31,270
2000	50	8,100	14,358	116.3	114.7	24.50	28,102
Counties:							
Hawaii/Ka	auai/Maui ³						
1996	45	3,300	13,758	45.4	42.9	23.55	10,104
1997	40	3,600	12,639	45.5	42.9	23.95	10,275
1998	40	3,800	12,868	48.9	46.5	24.63	11,455
1999	40	2,900	11,655	33.8	32.3	24.70	7,970
2000	40	2,900	13,138	38.1	36.6	23.80	8,715
Honolulu							
1996	15	6,100	13,705	83.6	83.0	23.05	19,130
1997	10	5,500	14,091	77.5	76.4	25.14	19,204
1998	10	5,100	15,706	80.1	79.8	27.37	21,838
1999	10	5,700	15,070	85.9	85.7	27.20	23,300
2000	10	5,200	15,038	78.2	78.1	24.80	19,387

<sup>&</sup>lt;sup>1</sup> Includes commercial, licensed dairies as well as farms with only a few cows.

<sup>3</sup> Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

MILK: Production and Milk per Cow Annual Basis, State of Hawaii, 1970-2000



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<sup>&</sup>lt;sup>2</sup> Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.

Year         Jan.         Feb.         Mar.         Apr.         May         June         July         Aug.         Sep.         Oct.         Nov.         Dec.         Total or average           Average number of milk cows on hand during month - 1,000 head           1996         9,9         9.7         9.3         9.2         9.3         9.2         9.2         9.2         9.4         9.6         9.6         9.4           1997         9.6         9.4         9.1         9.1         9.0         9.0         8.8         8.8         8.8         8.8         8.9         8.9         9.9         9.1         9.0         9.0         8.9         8.8 <td< th=""><th>MILK</th><th>: Nun</th><th>nber of</th><th>cows,</th><th>milk p</th><th>oroduc</th><th>tion, p</th><th>rice, a</th><th>nd mil</th><th>k fat, S</th><th>tate of</th><th>Hawa</th><th>ii, 1996</th><th>6-2000</th></td<>	MILK	: Nun	nber of	cows,	milk p	oroduc	tion, p	rice, a	nd mil	k fat, S	tate of	Hawa	ii, 1996	6-2000
1996   9.9   9.7   9.3   9.2   9.3   9.3   9.2   9.2   9.2   9.2   9.4   9.6   9.6   9.4     1997   9.6   9.4   9.4   9.1   9.1   9.0   9.0   9.0   8.8   8.8   8.8   8.9   9.1     1998   8.7   8.6   8.6   8.6   8.5   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.5   8.5     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.6   8.5     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.3   8.2   8.0   7.9   7.7   7.7   7.5   8.1      Average monthly production per all cows in herd - pounds    1996   1,120   1,105   1,245   1,250   1,270   1,215   1,260   1,165   1,045   990   960   1,105   13,723     1997   1,105   1,075   1,225   1,210   1,265   1,190   1,200   1,120   1,025   1,035   1,020   1,065   13,516     1998   1,150   1,095   1,280   1,255   1,295   1,260   1,260   1,260   1,200   1,080   1,035   1,000   1,600   13,919     2000   1,095   1,070   1,200   1,210   1,330   1,275   1,305   1,250   1,150   1,130   1,090   1,175   14,358      Milk production - million pounds    1998   11.1   10.7   11.6   11.5   11.8   11.3   11.6   10.7   9.6   9.3   9.2   10.6   129.0     1999   10.0   9.4   11.0   10.8   11.0   10.7   10.8   10.1   90.   9.1   9.1   9.5   123.0     1999   10.0   9.4   11.0   10.8   11.0   10.7   10.8   10.1   90.   9.1   8.7   8.4   8.8   116.3      Average price for milk sold to plants - dollars per hundredweight    1996   23.05   23.09   23.12   23.07   23.08   23.12   23.18   23.39   23.40   23.48   23.49   23.36   23.22     1997   23.31   23.33   23.32   24.85   25.89   24.79   24.91   24.50   24.45   25.63   25.74   26.11   24.71     1998   25.93   26.08   26.09   26.11   26.04   24.49   25.12   26.72   26.60   27.77   27.87   28.32   26.60     2000   23.80   23.90   23.50   24.40   24.70   24.80   25.50   25.60   27.80   27.80   25.00   25.10   26.50     2000   23.80   23.90   23.50   24.40   24.70   24.80   25.50   25.60   27.80   24.50   25.00   24.50      Average milk fat for milk sold to plants - percent      1998   3.38   3.38   3.37   3.39   3.44	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
1996   9.9   9.7   9.3   9.2   9.3   9.3   9.2   9.2   9.2   9.2   9.4   9.6   9.6   9.4     1997   9.6   9.4   9.4   9.1   9.1   9.0   9.0   9.0   8.8   8.8   8.8   8.9   9.1     1998   8.7   8.6   8.6   8.6   8.5   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.5   8.5     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.6   8.5     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.3   8.2   8.0   7.9   7.7   7.7   7.5   8.1      Average monthly production per all cows in herd - pounds    1996   1,120   1,105   1,245   1,250   1,270   1,215   1,260   1,165   1,045   990   960   1,105   13,723     1997   1,105   1,075   1,225   1,210   1,265   1,190   1,200   1,120   1,025   1,035   1,020   1,065   13,516     1998   1,150   1,095   1,280   1,255   1,295   1,260   1,260   1,260   1,200   1,080   1,035   1,000   1,600   13,919     2000   1,095   1,070   1,200   1,210   1,330   1,275   1,305   1,250   1,150   1,130   1,090   1,175   14,358      Milk production - million pounds    1998   11.1   10.7   11.6   11.5   11.8   11.3   11.6   10.7   9.6   9.3   9.2   10.6   129.0     1999   10.0   9.4   11.0   10.8   11.0   10.7   10.8   10.1   90.   9.1   9.1   9.5   123.0     1999   10.0   9.4   11.0   10.8   11.0   10.7   10.8   10.1   90.   9.1   8.7   8.4   8.8   116.3      Average price for milk sold to plants - dollars per hundredweight    1996   23.05   23.09   23.12   23.07   23.08   23.12   23.18   23.39   23.40   23.48   23.49   23.36   23.22     1997   23.31   23.33   23.32   24.85   25.89   24.79   24.91   24.50   24.45   25.63   25.74   26.11   24.71     1998   25.93   26.08   26.09   26.11   26.04   24.49   25.12   26.72   26.60   27.77   27.87   28.32   26.60     2000   23.80   23.90   23.50   24.40   24.70   24.80   25.50   25.60   27.80   27.80   25.00   25.10   26.50     2000   23.80   23.90   23.50   24.40   24.70   24.80   25.50   25.60   27.80   24.50   25.00   24.50      Average milk fat for milk sold to plants - percent      1998   3.38   3.38   3.37   3.39   3.44	Avorago n	umbor	of milk (	rowe on	hand d	urina m	onth - 1	000 he	ad					
1997   9.6   9.4   9.4   9.1   9.1   9.0   9.0   8.8   8.8   8.8   8.8   8.9   8.9   9.1     1998   9.1   9.0   9.0   8.9   8.8   8.8   8.8   8.8   8.8   8.8   8.8   8.5   8.5     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.5   8.6     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.3   8.2   8.0   7.9   7.7   7.7   7.5   8.1      Average monthly production per all cows in herd - pounds     1996   1,120   1,105   1,245   1,250   1,270   1,215   1,260   1,165   1,045   990   960   1,105   13,723     1997   1,105   1,075   1,225   1,210   1,265   1,190   1,200   1,120   1,025   1,035   1,020   1,065   13,516     1998   1,100   1,110   1,280   1,325   1,400   1,320   1,350   1,215   1,100   1,125   1,090   1,150   14,494     1999   1,150   1,095   1,280   1,255   1,295   1,260   1,260   1,200   1,080   1,035   1,000   1,060   13,919     2000   1,095   1,070   1,200   1,210   1,330   1,275   1,305   1,250   1,150   1,130   1,090   1,175   14,358      Milk production - million pounds     1996   11.1   10.7   11.6   11.5   11.8   11.3   11.6   10.7   9.6   9.3   9.2   10.6   129.0     1998   10.0   10.0   11.5   11.8   12.3   11.6   11.9   10.7   9.7   9.9   9.6   10.0   129.0     1999   10.0   9.4   11.0   10.8   11.0   10.7   10.8   10.1   9.0   9.1   9.1   9.5   123.0     1996   23.05   23.09   23.12   23.07   23.08   23.12   23.18   23.39   23.40   23.48   23.49   23.36   23.22     1997   23.31   23.33   23.32   24.85   25.89   24.79   24.91   24.50   24.45   25.63   25.77   27.87   28.32   26.36     1999   28.40   29.20   28.80   25.20   25.30   25.30   25.10   25.50   25.60   27.77   27.87   28.32   26.36     1999   28.40   29.20   28.80   25.20   25.30   25.30   25.10   25.50   25.60   27.77   27.87   28.32   26.36     1999   28.41   29.20   28.80   25.20   25.30   25.30   25.10   25.50   25.60   27.80   25.10   25.50     2000   23.80   23.90   23.50   24.40   24.70   24.80   25.20   24.40   24.70   24.60   25.00   24.50      24.50   24.50   24.50   24.45   24.45   24.	_					•				0.0	0.4	0.0	0.0	0.4
1998   9.1   9.0   9.0   8.9   8.8   8.8   8.8   8.8   8.8   8.8   8.8   8.8   8.7   8.9     1999   8.7   8.6   8.6   8.6   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.6   8.5   8.5     2000   8.4   8.4   8.5   8.5   8.5   8.5   8.3   8.2   8.0   7.9   7.7   7.7   7.5   8.1      Average monthly production per all cows in herd - pounds    1996   1,120   1,105   1,245   1,250   1,270   1,215   1,260   1,165   1,045   990   960   1,105   13,723     1997   1,105   1,075   1,225   1,210   1,225   1,300   1,200   1,120   1,025   1,035   1,020   1,065   13,516     1998   1,100   1,110   1,280   1,325   1,400   1,320   1,350   1,215   1,100   1,125   1,009   1,150   14,494     1999   1,150   1,095   1,280   1,255   1,295   1,260   1,260   1,260   1,260   1,080   1,035   1,000   1,060   13,919     2000   1,095   1,070   1,200   1,210   1,330   1,275   1,305   1,250   1,150   1,130   1,090   1,175   14,358      Milk production - million pounds    1996   11.1   10.7   11.6   11.5   11.8   11.3   11.6   10.7   9.6   9.3   9.2   10.6   129.0     1997   10.6   10.1   11.5   11.0   11.5   10.7   10.8   10.1   9.0   9.1   9.1   9.5   123.0     1998   10.0   10.0   11.5   11.8   12.3   11.6   11.9   10.7   9.7   9.9   9.6   10.0   129.0     1999   10.0   9.4   11.0   10.8   11.0   10.7   10.7   10.3   9.3   8.9   8.6   9.0   119.7     2000   9.2   9.0   10.2   10.3   11.3   10.6   10.7   10.3   9.3   8.9   8.6   9.0   119.7     2000   9.2   3.09   23.12   23.07   23.08   23.12   23.18   23.39   23.40   23.48   23.49   23.36   23.22     1997   23.31   23.33   23.32   24.85   25.89   24.79   24.91   24.50   24.45   25.60   25.77   26.11   24.71     1998   25.93   26.08   26.09   26.11   26.04   24.49   25.12   26.72   26.60   27.77   27.78   28.32   26.36     1999   28.40   29.20   28.80   25.20   25.30   25.30   25.10   25.50   25.60   27.77   27.78   28.32   26.36     1999   28.40   29.20   28.80   25.20   25.30   25.30   25.10   25.50   25.60   27.80   26.90   25.10   26.50     2000   23.80   23.90   23.50   24.40   24														
1999   8.7   8.6   8.6   8.5   8.5   8.5   8.5   8.6   8.6   8.6   8.6   8.5   8.5   8.6			• • •	• • •										
Average monthly production per all cows in herd - pounds  1996		_											_	
1996														
1996														
1997	Average n	-	-	-			-							
1998		•												
1999		•	,											
Milk production - million pounds   1,996														
Milk production - million pounds         1996       11.1       10.7       11.6       11.5       11.8       11.3       11.6       10.7       9.6       9.3       9.2       10.6       129.0         1997       10.6       10.1       11.5       11.0       11.5       10.7       10.8       10.1       9.0       9.1       9.1       9.5       123.0         1998       10.0       10.0       11.5       11.8       12.3       11.6       11.9       10.7       9.7       9.9       9.6       10.0       129.0         1999       10.0       9.4       11.0       10.8       11.0       10.7       10.7       10.3       9.3       8.9       8.6       9.0       119.7         2000       9.2       9.0       10.2       10.3       11.3       10.6       10.7       10.0       9.1       8.7       8.4       8.8       116.3         Average price for milk sold to plants - dollars per hundredweight         1996       23.05       23.09       23.12       23.07       23.08       23.12       23.18       23.39       23.40       23.48       23.49       23.36       23.22         1997       23.31														
1996 11.1 10.7 11.6 11.5 11.8 11.3 11.6 10.7 9.6 9.3 9.2 10.6 129.0 1997 10.6 10.1 11.5 11.0 11.5 10.7 10.8 10.1 9.0 9.1 9.1 9.5 123.0 1998 10.0 10.0 11.5 11.8 12.3 11.6 11.9 10.7 9.7 9.9 9.6 10.0 129.0 1999 10.0 9.4 11.0 10.8 11.0 10.7 10.7 10.3 9.3 8.9 8.6 9.0 119.7 2000 9.2 9.0 10.2 10.3 11.3 10.6 10.7 10.0 9.1 8.7 8.4 8.8 116.3  Average price for milk sold to plants - dollars per hundredweight 1996 23.05 23.09 23.12 23.07 23.08 23.12 23.18 23.39 23.40 23.48 23.49 23.36 23.22 1997 23.31 23.33 23.32 24.85 25.89 24.79 24.91 24.50 24.45 25.63 25.74 26.11 24.71 1998 25.93 26.08 26.09 26.11 26.04 24.49 25.12 26.72 26.60 27.77 27.87 28.32 26.36 1999 28.40 29.20 28.80 25.20 25.30 25.30 25.30 25.10 25.50 25.60 27.80 26.90 25.10 26.50 2000 23.80 23.90 23.50 24.40 24.70 24.80 25.20 24.70 24.70 24.60 25.00 24.50  Average milk fat for milk sold to plants - percent 1996 3.42 3.45 3.49 3.44 3.41 3.41 3.41 3.41 3.44 3.44 3.49 3.48 3.44 3.44 1997 3.41 3.41 3.38 3.46 3.40 3.35 3.39 3.41 3.42 3.46 3.45 3.48 3.42 1998 3.38 3.38 3.37 3.39 3.37 3.34 3.40 3.46 3.49 3.52 3.54 3.51 3.43 1999 3.52 3.45 3.44 3.49 3.48 3.41 3.41 3.47 3.45 3.53 3.54 3.53 3.57 3.49	2000	1,095	1,070	1,200	1,210	1,330	1,275	1,305	1,250	1,150	1,130	1,090	1,175	14,358
1996 11.1 10.7 11.6 11.5 11.8 11.3 11.6 10.7 9.6 9.3 9.2 10.6 129.0 1997 10.6 10.1 11.5 11.0 11.5 10.7 10.8 10.1 9.0 9.1 9.1 9.5 123.0 1998 10.0 10.0 11.5 11.8 12.3 11.6 11.9 10.7 9.7 9.9 9.6 10.0 129.0 1999 10.0 9.4 11.0 10.8 11.0 10.7 10.7 10.3 9.3 8.9 8.6 9.0 119.7 2000 9.2 9.0 10.2 10.3 11.3 10.6 10.7 10.0 9.1 8.7 8.4 8.8 116.3  Average price for milk sold to plants - dollars per hundredweight 1996 23.05 23.09 23.12 23.07 23.08 23.12 23.18 23.39 23.40 23.48 23.49 23.36 23.22 1997 23.31 23.33 23.32 24.85 25.89 24.79 24.91 24.50 24.45 25.63 25.74 26.11 24.71 1998 25.93 26.08 26.09 26.11 26.04 24.49 25.12 26.72 26.60 27.77 27.87 28.32 26.36 1999 28.40 29.20 28.80 25.20 25.30 25.30 25.30 25.10 25.50 25.60 27.80 26.90 25.10 26.50 2000 23.80 23.90 23.50 24.40 24.70 24.80 25.20 24.70 24.70 24.60 25.00 24.50  Average milk fat for milk sold to plants - percent 1996 3.42 3.45 3.49 3.44 3.41 3.41 3.41 3.41 3.44 3.44 3.49 3.48 3.44 3.44 1997 3.41 3.41 3.38 3.46 3.40 3.35 3.39 3.41 3.42 3.46 3.45 3.48 3.42 1998 3.38 3.38 3.37 3.39 3.37 3.34 3.40 3.46 3.49 3.52 3.54 3.51 3.43 1999 3.52 3.45 3.44 3.49 3.48 3.41 3.41 3.47 3.45 3.53 3.54 3.53 3.57 3.49	Milk produ	ıction -	million n	ounds										
1997 10.6 10.1 11.5 11.0 11.5 10.7 10.8 10.1 9.0 9.1 9.1 9.5 123.0 1998 10.0 10.0 11.5 11.8 12.3 11.6 11.9 10.7 9.7 9.9 9.6 10.0 129.0 1999 10.0 9.4 11.0 10.8 11.0 10.7 10.7 10.3 9.3 8.9 8.6 9.0 119.7 2000 9.2 9.0 10.2 10.3 11.3 10.6 10.7 10.0 9.1 8.7 8.4 8.8 116.3  Average price for milk sold to plants - dollars per hundredweight 1996 23.05 23.09 23.12 23.07 23.08 23.12 23.18 23.39 23.40 23.48 23.49 23.36 23.22 1997 23.31 23.33 23.32 24.85 25.89 24.79 24.91 24.50 24.45 25.63 25.74 26.11 24.71 1998 25.93 26.08 26.09 26.11 26.04 24.49 25.12 26.72 26.60 27.77 27.87 28.32 26.36 1999 28.40 29.20 28.80 25.20 25.30 25.30 25.10 25.50 25.60 27.80 26.90 25.10 26.50 2000 23.80 23.90 23.50 24.40 24.70 24.80 25.20 24.70 24.70 24.70 24.70 24.60 25.00 24.50 24.50 24.70 24.70 24.70 24.70 24.70 24.50 24.50 24.50 24.50 25.00 25.00 25.00 25.00 24.50 24.50 24.70 24.70 24.70 24.70 24.70 24.70 24.50 24.50 24.50 25.00 25.00 24.50 24.50 25.00 25.30 25	•		•		11 5	11 0	11 2	116	10.7	0.6	0.3	0.2	10.6	120.0
1998				_										
1999       10.0       9.4       11.0       10.8       11.0       10.7       10.7       10.3       9.3       8.9       8.6       9.0       119.7         2000       9.2       9.0       10.2       10.3       11.3       10.6       10.7       10.0       9.1       8.7       8.4       8.8       116.3         Average price for milk sold to plants - dollars per hundredweight         1996       23.05       23.09       23.12       23.07       23.08       23.12       23.18       23.39       23.40       23.48       23.49       23.36       23.22         1997       23.31       23.33       23.32       24.85       25.89       24.79       24.91       24.50       24.45       25.63       25.74       26.11       24.71         1998       25.93       26.08       26.09       26.11       26.04       24.49       25.12       26.72       26.60       27.77       27.87       28.32       26.36         1999       28.40       29.20       28.80       25.20       25.30       25.10       25.50       25.60       27.80       26.90       25.10       26.50         200       23.80       23.45 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
Average price for milk sold to plants - dollars per hundredweight         1996         23.05         23.09         23.12         23.07         23.08         23.12         23.18         23.39         23.40         23.48         23.49         23.36         23.22           1997         23.31         23.33         23.32         24.85         25.89         24.79         24.91         24.50         24.45         25.63         25.74         26.11         24.71           1998         25.93         26.08         26.09         26.11         26.04         24.49         25.12         26.72         26.60         27.77         27.87         28.32         26.36           1999         28.40         29.20         28.80         25.20         25.30         25.30         25.10         25.50         25.60         27.80         26.90         25.10         26.50           2000         23.80         23.90         23.50         24.40         24.70         24.80         25.20         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70         24.70<														
1996       23.05       23.09       23.12       23.07       23.08       23.12       23.18       23.39       23.40       23.48       23.49       23.36       23.22         1997       23.31       23.33       23.32       24.85       25.89       24.79       24.91       24.50       24.45       25.63       25.74       26.11       24.71         1998       25.93       26.08       26.09       26.11       26.04       24.49       25.12       26.72       26.60       27.77       27.87       28.32       26.36         1999       28.40       29.20       28.80       25.20       25.30       25.10       25.50       25.60       27.80       26.90       25.10       26.50         2000       23.80       23.90       23.50       24.40       24.70       24.80       25.20       24.70       24.70       24.70       24.60       25.00       25.00       24.50         Average milk fat for milk sold to plants - percent         1996       3.42       3.45       3.49       3.44       3.41       3.41       3.44       3.44       3.49       3.48       3.44         1997       3.41       3.41       3.38       3.36 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
1996       23.05       23.09       23.12       23.07       23.08       23.12       23.18       23.39       23.40       23.48       23.49       23.36       23.22         1997       23.31       23.33       23.32       24.85       25.89       24.79       24.91       24.50       24.45       25.63       25.74       26.11       24.71         1998       25.93       26.08       26.09       26.11       26.04       24.49       25.12       26.72       26.60       27.77       27.87       28.32       26.36         1999       28.40       29.20       28.80       25.20       25.30       25.10       25.50       25.60       27.80       26.90       25.10       26.50         2000       23.80       23.90       23.50       24.40       24.70       24.80       25.20       24.70       24.70       24.70       24.60       25.00       25.00       24.50         Average milk fat for milk sold to plants - percent         1996       3.42       3.45       3.49       3.44       3.41       3.41       3.44       3.44       3.49       3.48       3.44         1997       3.41       3.41       3.38       3.36 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
1997       23.31       23.33       23.32       24.85       25.89       24.79       24.91       24.50       24.45       25.63       25.74       26.11       24.71         1998       25.93       26.08       26.09       26.11       26.04       24.49       25.12       26.72       26.60       27.77       27.87       28.32       26.36         1999       28.40       29.20       28.80       25.20       25.30       25.30       25.10       25.50       25.60       27.80       26.90       25.10       26.50         2000       23.80       23.90       23.50       24.40       24.70       24.80       25.20       24.70       24.70       24.70       24.60       25.00       24.50         Average milk fat for milk sold to plants - percent         1996       3.42       3.45       3.49       3.44       3.41       3.41       3.41       3.44       3.44       3.49       3.48       3.44         1997       3.41       3.41       3.38       3.36       3.39       3.37       3.39       3.37       3.34       3.40       3.46       3.49       3.52       3.54       3.51       3.43         1998       3.52	Average p	rice for	milk so	ld to pla	ints - do	llars per	hundre	dweight						
1998       25.93       26.08       26.09       26.11       26.04       24.49       25.12       26.72       26.60       27.77       27.87       28.32       26.36         1999       28.40       29.20       28.80       25.20       25.30       25.30       25.10       25.50       25.60       27.80       26.90       25.10       26.50         2000       23.80       23.90       23.50       24.40       24.70       24.80       25.20       24.70       24.70       24.70       24.60       25.00       25.00       24.50     Average milk fat for milk sold to plants - percent  1996  3.42  3.45  3.49  3.41  3.41  3.41  3.41  3.41  3.41  3.41  3.41  3.44  3.44  3.49  3.44  3.49  3.41  3.41  3.41  3.42  3.46  3.49  3.45  3.46  3.49  3.52  3.54  3.51  3.43  1999  3.52  3.45  3.44  3.49  3.48  3.41  3.47  3.45  3.45  3.53  3.57  3.49	1996	23.05	23.09	23.12	23.07	23.08	23.12	23.18	23.39	23.40	23.48	23.49	23.36	23.22
1999 28.40 29.20 28.80 25.20 25.30 25.30 25.10 25.50 25.60 27.80 26.90 25.10 26.50 2000 23.80 23.90 23.50 24.40 24.70 24.80 25.20 24.70 24.70 24.70 24.70 24.60 25.00 24.50 24.50 24.50 24.70 24	1997	23.31	23.33	23.32	24.85	25.89	24.79	24.91	24.50	24.45	25.63	25.74	26.11	24.71
2000         23.80         23.90         23.50         24.40         24.70         24.80         25.20         24.70         24.70         24.60         25.00         24.50           Average milk fat for milk sold to plants - percent           1996         3.42         3.45         3.49         3.44         3.41         3.41         3.41         3.44         3.44         3.49         3.48         3.44           1997         3.41         3.41         3.38         3.46         3.40         3.35         3.39         3.41         3.42         3.46         3.48         3.42           1998         3.38         3.38         3.37         3.39         3.37         3.34         3.40         3.46         3.49         3.52         3.54         3.51         3.43           1999         3.52         3.45         3.44         3.49         3.48         3.41         3.47         3.45         3.53         3.57         3.49	1998	25.93	26.08	26.09									28.32	26.36
Average milk fat for milk sold to plants - percent         1996       3.42       3.45       3.49       3.44       3.41       3.41       3.41       3.44       3.44       3.49       3.48       3.44       3.44         1997       3.41       3.41       3.38       3.46       3.40       3.35       3.39       3.41       3.42       3.46       3.45       3.48       3.42         1998       3.38       3.38       3.37       3.39       3.37       3.34       3.40       3.46       3.49       3.52       3.54       3.51       3.43         1999       3.52       3.45       3.44       3.49       3.48       3.41       3.47       3.45       3.53       3.57       3.49														
1996     3.42     3.45     3.49     3.44     3.41     3.41     3.41     3.44     3.44     3.49     3.48     3.44     3.44       1997     3.41     3.41     3.38     3.46     3.40     3.35     3.39     3.41     3.42     3.46     3.45     3.48     3.42       1998     3.38     3.38     3.37     3.39     3.37     3.34     3.40     3.46     3.49     3.52     3.54     3.51     3.43       1999     3.52     3.45     3.44     3.49     3.48     3.41     3.47     3.45     3.53     3.54     3.53     3.57     3.49	2000	23.80	23.90	23.50	24.40	24.70	24.80	25.20	24.70	24.70	24.70	24.60	25.00	24.50
1996     3.42     3.45     3.49     3.44     3.41     3.41     3.41     3.44     3.44     3.49     3.48     3.44     3.44       1997     3.41     3.41     3.38     3.46     3.40     3.35     3.39     3.41     3.42     3.46     3.45     3.48     3.42       1998     3.38     3.38     3.37     3.39     3.37     3.34     3.40     3.46     3.49     3.52     3.54     3.51     3.43       1999     3.52     3.45     3.44     3.49     3.48     3.41     3.47     3.45     3.53     3.54     3.53     3.57     3.49	Avorago =	nilk fat f	or milk	sold to	nlante	nercent								
1997     3.41     3.41     3.38     3.46     3.40     3.35     3.39     3.41     3.42     3.46     3.45     3.48     3.42       1998     3.38     3.38     3.37     3.39     3.37     3.34     3.40     3.46     3.49     3.52     3.54     3.51     3.43       1999     3.52     3.45     3.44     3.49     3.48     3.41     3.47     3.45     3.53     3.54     3.53     3.57     3.49	_			-		•		2 44	2 44	2 44	2 40	2 40	2 44	2 44
1998     3.38     3.38     3.37     3.39     3.37     3.34     3.40     3.46     3.49     3.52     3.54     3.51     3.43       1999     3.52     3.45     3.44     3.49     3.48     3.41     3.47     3.45     3.53     3.54     3.53     3.57     3.49														
1999 3.52 3.45 3.44 3.49 3.48 3.41 3.47 3.45 3.53 3.54 3.53 3.57 3.49														

# HOGS AND PIGS: December 1 inventory by classes and weight, State of Hawaii, 1996-2000

	All bogs				Market	_	
Year	All hogs and pigs	Breeding	Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
				1,000 head			_
1996	28	5	23	10	6	5	2
1997	29	5	24	11	6	5	2
1998	29	5	24	10	7	4	3
1999	28	5	23	9	7	4	3
2000	26	5	21	10	6	3	2

# HOGS AND PIGS: December 1 inventory by class, by counties, 1996-2000

Year	All hogs and pigs	Breeding	Total market	Year	All hogs and pigs	Breeding	Total market
		1,000 head			1,000	) head	_
Counties: Hawaii				Kauai			
1996	2.6	.5	2.1	1996	4.0	.5	3.5
1997	2.2	.4	1.8	1997	3.5	.4	3.1
1998	2.1	.3	1.8	1998	3.5	.4	3.1
1999	2.2	.5	1.7	1999	2.6	.3	2.3
2000	4.0	.8	3.2	2000	1.8	.3	1.5
Honolulu				Maui			
1996	15.5	3.1	12.4	1996	5.9	1.0	4.9
1997	18.4	3.6	14.8	1997	4.9	.8	4.1
1998	18.3	3.3	15.0	1998	5.1	.8	4.3
1999	18.4	3.4	15.0	1999	4.8	1.1	3.7
2000	15.0	3.0	12.0	2000	5.2	1.1	4.1

HOGS: Number of operations, number and pounds sold, price, and value, by counties, 1996-2000

Year	Operations	Number sold <sup>1</sup>	Pounds sold (live weight) <sup>2</sup>	Farm price (live weight)	Value of sales	
	Number	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars	
	Number	1,000 nead	1,000 pourido	nanareaweight	1,000 donard	
State <sup>3</sup>						
1996	250	45	8,100	81.30	6,585	
1997	250	33	6,105	80.30	4,902	
1998	250	35	6,300	83.10	5,235	
1999	230	35	6,300	80.50	5,072	
2000	230	31	5,580	79.30	4,425	
Counties: Hawaii						
	90	2.2	611	74.50	155	
1996 1997	80 90	3.3 2.7	611 525	74.50	455 404	
				77.00		
1998	80	2.8	528 734	79.50	420 560	
1999	70 <b>7</b> 0	3.8	734	77.50	569	
2000	70	3.3	617	77.00	475	
Honolulu						
1996	70	26.2	4,635	81.00	3,754	
1997	70	20.7	3,795	80.00	3,036	
1998	80	23.4	4,132	83.50	3,451	
1999	70	22.1	3,880	81.00	3,143	
2000	70	18.9	3,296	80.00	2,637	
Kauai						
1996	40	5.8	1,040	84.50	879	
1997	30	2.9	541	84.00	454	
1998	40	3.5	634	85.00	539	
1999	30	3.5	575	81.00	466	
2000	30	2.9	491	77.00	378	
Maui						
1996	60	9.7	1,814	82.50	1,497	
1990	60	6.7	1,244	81.00	1,008	
1998	50	5.3	1,006	82.00	825	
1999	60	5.6	1,111	80.50	894	
<b>2000</b>	<b>60</b>	5.0 <b>5.9</b>	1,176	<b>79.50</b>	935	

<sup>&</sup>lt;sup>1</sup> Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers.

<sup>&</sup>lt;sup>2</sup> Excludes custom slaughter for use on farms where produced and interfarm sales.

<sup>&</sup>lt;sup>3</sup> Sum of county estimates may not add to State total due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.

HOGS: Commercial slaughter and farm price, State of Hawaii, 1996-2000													
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of	f head <sup>1 :</sup>	² <b>-</b> 1,000	head										
1996	3.4	3.5	3.5	3.7	3.7	3.4	3.9	3.8	3.3	3.6	3.4	4.3	43.4
1997	3.6	3.1	3.2	3.4	3.4	3.4	3.5	3.2	3.3	3.5	2.9	4.1	40.5
1998	3.3	2.8	3.0	3.1	3.1	3.1	3.3	2.9	2.2	3.1	2.8	3.7	36.5
1999	2.8	2.9	3.0	3.1	2.9	3.0	3.1	2.9	3.0	2.9	2.9	3.6	36.0
2000	2.9	2.8	3.0	2.7	3.2	3.2	2.7	3.1	2.8	3.0	2.9	3.6	35.8
Pounds sl	aughter	ed, dres	sed we	ight <sup>123</sup>	- 1,000	pounds							
1996	503	497	503	519	507	486	562	527	496	501	500	612	6,213
1997	529	456	482	510	505	515	522	502	507	521	427	604	6,080
1998	491	419	455	470	472	452	504	440	336	465	434	540	5,477
1999	437	422	459	464	429	458	488	465	454	456	443	552	5,525
2000	440	407	467	414	490	504	428	486	437	464	441	556	5,531
All hogs, a	average	farm pr	ice, dres	ssed we	eight <sup>4</sup> - c	cents pe	r pound						
1996	107.0	105.5	106.0	107.0	108.5	109.0	109.5	109.0	111.5	110.5	110.0	109.0	108.5
1997	108.5	107.0	107.0	104.5	103.0	104.0	107.0	106.5	109.0	109.5	107.5	110.5	107.0
1998	110.5	111.0	111.0	111.0	108.0	110.5	109.5	111.5	111.5	111.5	112.5	110.5	111.0
1999	108.5	108.0	107.0	107.0	105.0	106.5	107.0	106.5	107.5	107.5	106.0	106.5	107.5
2000	106.0	106.0	105.0	105.0	105.5	105.5	105.0	106.0	105.5	108.0	105.5		106.0
Market ho	gs, aver	age farr	n price.	dresse	d weigh	<b>t⁴ -</b> cent	ts per po	und					
1996	109.0	107.0	107.5	108.0	110.0	110.5	, , 111.5	111.0	113.5	113.0	112.5	113.0	110.0
1997	112.5	109.5	112.0	109.5	110.5	112.5	112.0	111.5	111.0	112.5	112.5	112.5	111.5
1998	113.0	113.0	113.5	113.5	113.5	113.5	114.0	114.0	113.5	114.0	114.5	112.0	113.5
1999	110.5	109.5	110.5	110.0	108.5	110.5	109.5	110.0	109.0	109.5	108.5	109.0	110.0

<sup>&</sup>lt;sup>1</sup> Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.

109.0 109.0 108.0 109.0 109.0 109.0 109.0 110.0 110.0 111.5 110.0

## HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1996-2000

Year	Inventory December 1 previous year	Annual pig crop	Inshipments <sup>1</sup>	Marketings	Farm slaughter	Deaths	Inventory December 1
				1,000 head			
1996	34	45	*	45	1	5	28
1997	28	39	*	33	1	4	29
1998	29	39	*	35	1	3	29
1999	29	39	*	35	1	4	28
2000	28	36	*	31	1	6	26

<sup>\* =</sup> Less than 500 head.

81

109.5

<sup>&</sup>lt;sup>2</sup> Sum of monthly estimates may not add to annual total due to rounding.

<sup>&</sup>lt;sup>3</sup> To convert dressed weight to live weight, divide dressed weight by 0.75 or multiply by a factor of 1.3333.

<sup>&</sup>lt;sup>4</sup> Annual average price is for the 12-month period, December of the previous year through November of the following year.

<sup>&</sup>lt;sup>1</sup> Excludes live hogs brought in for immediate slaughter.

Egg production for 2000 totaled 143.4 million eggs, 4 percent below 1999's production of 149.0 million eggs and the tenth consecutive year of decline, the lowest since 1960. The average number of layers on hand during 2000 was 604,000, the lowest since 1960 and the twelfth consecutive year of decline. Cash receipts from egg sales during 2000 was \$10.6 million, 2 percent below 1999. The total number of egg-type chickens on hand in Hawaii on December 1, 2000 was 722,000 birds, fractionally above 1999. The 722,000 birds consisted of 609,000 layers and 113,000 non-laying pullets. The 609,000 layers was 4 percent above a year ago.

CHICKENS: December 1 inventory by class, by counties, 1996-2000

	CHICKLINS.	Decembe	i i ilivelitoi	y by class	s, by countie	55, 1990-200	U
	All chickens	Nι	ımber of layers	3	Non-layir	ng pullets	Other
Year	(excluding broilers)	Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	chickens (excluding broilers)
				Thousands			
State							
1996	876	490	235	725	76	75	*
1997	863	465	263	728	55	80	*
1998	747	408	199	607	77	63	*
1999	721	404	184	588	70	63	*
2000	722	435	174	609	56	57	*
Counties:							
Hawaii/Ka	uai/Maui ¹						
1996	161	95	58	153	8	0	*
1997	150	80	64	144	6	0	*
1998	146	82	58	140	0	6	*
1999	153	92	56	148	0	5	*
2000	152	95	53	148	0	4	*
Honolulu							
1996	715	395	177	572	68	75	*
1997	713	385	199	584	49	80	*
1998	601	326	141	467	77	57	*
1999	568	312	128	440	70	58	*
2000	570	340	121	461	56	53	*

<sup>\* =</sup> Less than 500.

<sup>&</sup>lt;sup>1</sup> Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

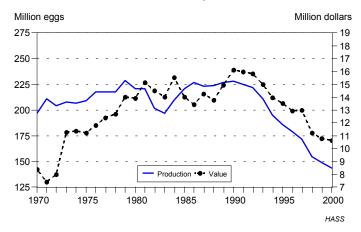
EGGS: December 1 number of operations, number of layers, production, price, and value, by counties, 1996-2000<sup>1</sup>

	-		-, - <b>,</b>	-	~	
Year	Operations	Average number of layers	Average production per layer	Production <sup>2</sup>	Average price <sup>3</sup>	Value of sales
	Number	1,000 birds	Eggs	Million eggs	Cents per dozen	1,000 dollars
State 4						
1996	55	754	237	179.0	86.9	12,963
1997	55	724	238	172.0	90.6	12,986
1998	55	632	244	154.4	87.2	11,220
1999	55	615	242	149.0	87.0	10,803
2000	55	604	237	143.4	89.0	10,636
Counties: Hawaii/Kau	ıai/Maui ⁵					
1996	36	156	229	35.8	102.5	3,058
1997	36	144	237	34.1	105.0	2,984
1998	38	140	245	34.6	105.0	3,027
1999	40	143	240	34.4	104.0	2,982
2000	40	150	239	35.9	104.5	3,127
Honolulu						
1996	19	598	241	144.3	83.0	9,905
1997	19	580	238	137.9	86.5	10,002
1998	17	492	244	119.8	82.1	8,193
1999	15	472	243	114.6	81.9	7,821
2000	15	454	237	107.5	84.0	7,509

Annual number of layers, egg production, sales, price, and value are for the 12-month period, December of the previous year through November of the following year.

<sup>2</sup> Home consumption less than 0.5 million eggs included.

EGGS: Production and Value of Sales, State of Hawaii, 1970-2000



<sup>&</sup>lt;sup>3</sup> Equivalent delivered processing plant.

<sup>&</sup>lt;sup>4</sup> Sum of county estimates may not add to State total due to rounding.

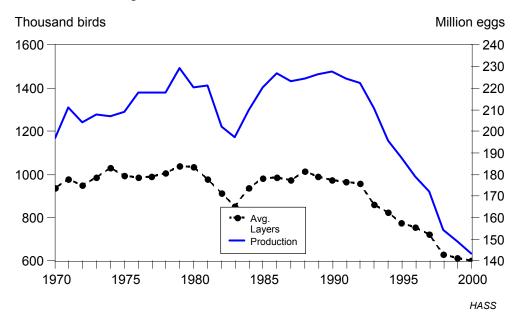
<sup>&</sup>lt;sup>5</sup> Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

EGGS: Number of layers, production, and price, State of Hawaii, 1996-2000

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average 1
Average r	number o	of layers	on han	d durin	g month	n - 1,000	) layers						
1996	785	774	776	767	754	738	736	749	724	725	736	734	754
1997	737	723	736	733	719	725	708	711	711	716	732	715	724
1998	673	638	642	638	616	600	581	601	629	632	623	604	632
1999	614	629	641	643	630	622	604	606	599	594	598	580	615
2000	580	596	615	615	607	610	603	607	604	612	621		604
Egg prod	uction <sup>2</sup> -	million	eggs										
1996	15.8	15.1	16.2	15.0	14.7	14.2	14.4	14.4	14.4	15.1	15.1	15.5	179.0
1997	15.0	13.7	15.9	15.0	14.6	14.2	14.3	13.9	13.3	13.5	13.1	13.4	172.0
1998	13.5	12.0	13.3	12.8	13.2	12.7	12.6	13.0	12.7	12.7	12.5	12.8	154.4
1999	12.7	11.8	13.3	13.1	13.1	12.5	12.2	11.9	11.9	12.1	11.6	12.1	149.0
2000	12.2	11.6	12.8	12.5	12.6	11.8	12.2	12.0	11.0	11.3	11.3		143.4
Average f	arm pric	<b>e</b> ³-cen	ts per do	ozen									
1996	87.5	87.5	87.5	86.0	86.0	86.0	86.0	86.5	86.0	87.0	89.5	91.5	86.9
1997	90.5	90.0	91.5	90.5	91.0	90.5	90.0	90.0	86.5	88.5	90.0	92.0	90.6
1998	92.0	93.0	93.5	91.5	85.5	83.0	83.0	84.5	82.0	82.0	83.5	88.0	87.2
1999	86.5	88.0	87.0	87.5	88.5	86.5	87.5	84.0	87.0	87.5	85.5	89.5	87.0
2000	89.5	91.0	90.5	90.5	91.5	88.5	90.0	88.0	86.5	85.5	86.5		89.0

<sup>&</sup>lt;sup>1</sup> Annual data are for the 12-month period, December of the previous year through November of the following year. <sup>2</sup> Sum of monthly estimates may not add to annual total due to rounding.

# **CHICKENS: Production and Average Number** of Layers, State of Hawaii, 1970-2000



<sup>&</sup>lt;sup>3</sup> Equivalent delivered processing plant.

- AQUACULTURE
- AGRICULTURAL LABOR
- FERTILIZER CONSUMPTION



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AQUACULTURE: Number of operations, production, and value, by counties, 1996-2000

.,	Number	F	Production				Value		_
Year	of operations	Shellfish 1	Finfish	Algae	Shellfish	Finfish	Algae	Other <sup>2</sup>	Total
		1	,000 pounds			1	,000 dollars		
State									
1996	117	616.8	129.2	1,245.9	4,315.5	1,191.6	9,082.4	1,066.2	15,655.7
1997	110	NA	NA	NA	4,960.0	950.0	8,295.0	2,395.0	16,600.0
1998	105	700.4	218.0	1,324.7	4,959.9	958.0	8,294.9	2,406.9	16,619.7
1999	100	996.0	215.0	1,193.0	6,393.0	1,010.0	7,883.0	2,816.0	18,102.0
2000	85	1,190.0	440.0	1,268.0	7,677.0	2,302.0	8,447.0	3,744.0	22,170.0
Counties Hawaii	::								
1996	43	432.8	66.6	1,113.1	3,188.7	764.9	8,779.1	464.6	13,197.3
1997	NA	NA	NA	NA	NA	NA	NA	NA	13,380.0
1998	44	485.3	44.8	3	3,647.5	3	3	1,476.4	13,382.5
1999	42	475.0	86.0	1,022.0	3,513.0	562.0	7,473.0	1,829.0	13,377.0
2000	37	450.0	3	1,035.0	3,571.0	3	7,953.0	3	16,009.0
Honolul	lu								
1996	44	124.0	47.5	132.8	776.8	373.9	303.3	601.6	2,055.6
1997	NA	NA	NA	NA	NA	NA	NA	NA	2,120.0
1998	46	3	130.5	3	1,013.4	3	3	279.5	2,099.6
1999	44	222.0	114.0	3	1,370.0	408.0	3	241.0	2,333.0
2000	35	359.0	72.0	3	2,123.0	349.0	3	3	2,985.0
Kauai									
1996	11	NA	NA	NA	NA	NA	NA	NA	NA
1997	NA	NA	NA	NA	NA	NA	NA	$N_{3}^{A}$	3
1998	3		3			3			3
1999	4	3	3	3	3	3	3	3	3
2000	4	3	3		3	3		3	3
Maui									
1996	19	60.0	15.1	NA	350.0	52.8	NA	NA	402.8
1997	NA	NA	NA	NA	NA	NA	NA	NA 3	3
1998	12	3	3	3	3	3	3		3
1999	10	3	3	3	3	3	3	3	3
2000	9	3	3	3	3	3	3	3	3

NA = Not available.

Some shellfish products sold by pieces, pounds not given.

<sup>&</sup>lt;sup>2</sup> Non-food products: ornamental fish, seed stock, other. Items not sold by weight.
<sup>3</sup> Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

Source: 1995, 1996, and 1997 Hawaii State Department of Agriculture, Aquaculture Development Program.

# AGRICULTURAL LABOR: Workers on farms, annual and quarterly averages, State of Hawaii, 1996-2000 <sup>1</sup>

	Total	farm employment	Hired	Hired workers by type of farm				
Year	Self-employed farm operators	Unpaid workers <sup>2</sup>	Hired workers <sup>3</sup>	Sugar	Pineapple	Other		
1996	2,700	1,000	7,400	1,400	1,200	4,800		
1997	2,700	1,200	7,000	1,200	1,300	4,500		
1998	2,700	1,200	7,400	1,200	1,200	5,000		
1999	3,000	1,200	7,600	1,200	1,300	5,200		
2000	3,100	1,000	7,800	1,000	1,200	5,600		
January	3,300	1,000	8,100	1,050	1,100	5,950		
April	2,900	900	7,300	1,050	1,100	5,150		
July	3,100	1,000	8,100	1,000	1,300	5,800		
October	3,000	1,000	7,800	1,000	1,150	5,650		

<sup>&</sup>lt;sup>1</sup>Averages are based on data collected from the January, April, July, and October surveys.

# AGRICULTURAL LABOR: Annual average number of workers on farms, by counties, 1996-2000 <sup>1</sup>

			.,	,			
Year	Self-employed farm operators	Unpaid workers <sup>2</sup>	Hired workers	Year	Self-employed farm operators	Unpaid workers <sup>2</sup>	Hired workers
Counties Hawaii	::			Kauai			
1996	1,800	600	2,600	1996	200	100	1,000
1997	1,800	700	2,450	1997	200	100	850
1998	1,750	650	2,550	1998	200	100	800
1999	1,850	600	2,400	1999	250	100	900
2000	1,800	550	2,700	2000	300	50	950
Honolul	lu			Maui			
1996	450	200	2,000	1996	300	150	1,850
1997	500	300	1,900	1997	300	100	1,850
1998	450	250	2,100	1998	350	150	1,950
1999	500	300	2,100	1999	450	200	2,200
2000	500	200	2,200	2000	500	150	2,000

<sup>&</sup>lt;sup>1</sup> Averages are based on data collected from the January, April, July, and October surveys.

<sup>&</sup>lt;sup>2</sup> Includes family members and others working 15 or more hours per week.

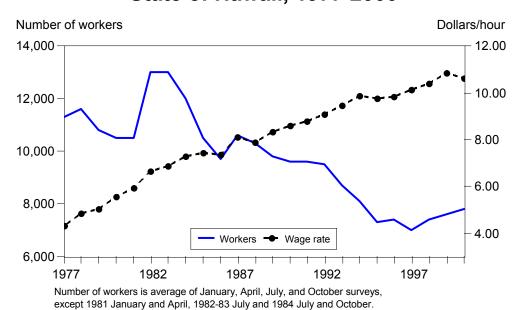
<sup>&</sup>lt;sup>3</sup> Sum of hired workers by type of farm may not add to hired workers total due to rounding.

<sup>&</sup>lt;sup>2</sup> Includes family members and others working 15 or more hours per week.

# AGRICULTURAL LABOR: Wage rates by type of work, annual and quarterly averages, State of Hawaii, 1996-2000

	Type of work performed						
Year	All	farms	Farms with 1-9 workers				
i cai	Field/livestock	All hired workers	Field/livestock	All hired workers			
1996	8.62	9.83	6.95	7.50			
1997	8.83	10.15	6.82	7.65			
1998	8.97	10.41	7.27	8.03			
1999	9.38	10.87	7.76	8.63			
2000	9.05	10.62	7.69	8.65			
January	8.90	10.40	7.55	8.25			
April	9.14	10.58	8.02	9.19			
July	9.09	10.76	7.58	8.33			
October	9.07	10.73	7.67	8.97			

# Hired Work Force and Average Wage Rate, State of Hawaii, 1977-2000



HASS

FERTILIZER: Commercial consumption, State of Hawaii, 1996-2000

Type	Year ending June 30					
Type	1996	1997	1998	1999	2000 <sup>1</sup>	
Consumption of fertilizers by cla	ss - Short tons of	<sup>r</sup> material				
Total fertilizer	109,478	109,478	112,762	98,103	90,000	
Total dry single-nutrient	28,423	28,423	29,275	25,470	23,366	
Total dry multiple-nutrient	32,936	32,936	33,924	29,514	27,076	
Fluid single-nutrient	25,583	25,583	26,350	22,925	21,031	
Fluid multiple-nutrient	18,392	18,392	18,943	16,481	15,119	
Total single-nutrient	54,005	54,005	55,625	48,394	44,397	
Total multiple-nutrient	51,328	51,328	52,868	45,995	42,196	
Total N	16,828	16,828	17,333	15,080	13,834	
N in multi-nutrients	6,786	6,786	6,990	6,081	5,579	
Total available P <sub>2</sub> 0 <sub>5</sub>	5,719	5,719	5,890	5,125	4,701	
Available P <sub>2</sub> 0 <sub>5</sub> in multi-nutrients	5,608	5,608	5,776	5,025	4,610	
Total K <sub>2</sub> 0	12,991	12,991	13,381	11,641	10,680	
K <sub>2</sub> 0 in multi-nutrients	9,006	9,006	9,276	8,071	7,404	
Total plant nutrients	35,538	35,538	36,604	31,845	29,215	
Average analysis	33.7	33.7	33.7	33.7	33.7	
Total in multi-nutrients	21,400	21,400	19,177	19,177	17,593	
Selected single-nutrient material	<b>s</b> - Short tons of r	material				
Nitrogen solutions	18,236	18,236	18,783	16,341	14,991	
Urea	2,480	2,480	2,554	2,222	2,038	
Ammonium sulfate	15,285	15,285	15,744	13,697	12,566	
Secondary and micronutrients	4,144	4,144	4,269	3,714	3,407	
Consumption of multiple-nutrien	t fertilizers - Sho	ort tons of materia	I			
N-P-K	45,031	45,031	46,382	40,353	37,019	
N-P	6,297	6,297	6,485	5,642	5,176	

Source: The Association of American Plant Food Control Officials and the Fertilizer institute.

<sup>&</sup>lt;sup>1</sup>An estimate of the total tonnage for 2000 was set equal to 92% of the 1999 tonnage based on information provided by industry representatives. The total tonnage was proportioned into the tonnage for the individual materials and grades in the same ratio as in the original TVA estimate. The specific materials and grades reported are based on a TVA estimate from about 1989 that have been carried forward and adjusted each year as above.

#### **DEFINITION OF TERMS**

**AGRICULTURE** entails all operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant or packinghouse door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally the shipper's warehouse.

**FARM** is a place with estimated (or expected) annual sales of agricultural products of at least \$1,000.

**CROP PRODUCTION** is the estimated amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

**ACREAGE IN CROP** is the total acreage standing in a specific crop regardless of age or condition unless it has been declared abandoned by the operator.

**ACREAGE HARVESTED** is the total area harvested or partially harvested during the reporting period. A permanent or semi-permanent planting that was harvested for only a portion of the year is counted in its entirety. Acreage lost before maturity due to natural or economic factors is not included. Acreage harvested and planted repeatedly during the year is counted each time.

**YIELD** is the average production per acre of merchantable quality harvested and sold or utilized. This is derived by dividing total production by harvested acres.

**LIVESTOCK OPERATION** is defined as a place that has one or more head of the species on hand at any time during the year. It does not have to meet the definition of a farm.

**LIVESTOCK PRODUCTION** is the estimated amount of livestock and livestock products sold. This includes allowance for amount used on farms where produced.

**FARM PRICE** is a computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for the definition of pricing point.

**MARKET SUPPLY** includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

#### SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Statistics Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Agricultural Statistics Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Statistics Service conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership.

**LIST SAMPLING** is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle, hog, macadamia nut and coffee surveys are examples of stratified list sample designs.

**AREA FRAME SAMPLING** can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

**MULTIPLE-FRAME SAMPLING** is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error.

**OBJECTIVE YIELD SURVEYS** provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields.

**ADMINISTRATIVE DATA** is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market Analysis and News Branch, are an important check data source.



# **REPORTS**

Title and Description	Release date
CROPS	
<b>AVOCADOS</b> : Annual summary of acreage, yield, production, farm price, and value	May
- Monthly report on sales, farm price, and production forecast	Last week of the month May
- Preliminary season estimates of acreage, yield, production, farm price, and value	December August
FRUITS: - Annual summary of fresh and processed fruit production, acreage, farm price, and value	September August
GINGER ROOT: Annual summary of acreage, yield, production, farm price, and value. Planting intentions for next season	August June
HERBS: Annual summary of fresh production, farm price, and value	June
- Preliminary season estimates of acreage, yield, production, farm price, and value	January July
PAPAYAS: Data on acreage, utilization, and farm price	Mid-month February October
SUGARCANE: Estimates of acreage and production for all major U.S. producing areas	August-November
- Quarterly summary of taro milled for poi	Jan., Apr., Jul., Oct.
varieties	April
Includes forecast of production and harvested acreage	Second week of month July
FLORICULTURE AND NURSERY PRODUCTS	lum -
FLORICULTURE AND NURSERY PRODUCTS: Annual summary of area, production, and value POINSETTIAS: Fall report of plant inventory and past year sales	June October
LIVESTOCK PEVIEW: Monthly bog and cettle claughter, entitle cutchingent, poeture conditions	
LIVESTOCK REVIEW: Monthly hog and cattle slaughter, cattle outshipment, pasture conditions, number of milk cows and milk production, number of layers and egg production, and farm prices	Last week of month February January February
OTHER PUBLICATIONS	
AQUACULTURE: Summary of operations, production, and value	September
stations  FARM LABOR: Quarterly report on number of workers by type and average wage rates	First working day of week Feb., May, Aug., Nov. October

To order: Any of the above reports may be obtained by contacting the Hawaii Agricultural Statistics Service, P.O. Box 22159, Honolulu, HI 96823-2159, (808) 973-9588. Most of our publications are available on the Internet at: http://www.nass.usda.gov/hi/rlsetoc.htm.

# **Need More Information?**

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#### Where can I get more statistics or economic analysis?

<u>National Agricultural Statistics Service (NASS)</u> publications include weekly, monthly, quarterly and annual estimates of production, stocks, inventories, dispositions, utilization and prices of agricultural commodities and other items. The Census of Agriculture is published every five years covering all commodities by state, county and zip code. Other census reports include the Agricultural Atlas, Agricultural Economics & Land Ownership, Aquaculture, Census History, Congressional Tabulations, Farm & Ranch Irrigation, Horticulture Specialties and Outlying Areas.

<u>Economic Research Service (ERS)</u> Situation and Outlook Reports and periodicals analyze the current situation and forecast market conditions. ERS monographs offer economic analysis in the area of trade, production, rural development, farm inputs and other topics.

<u>The World Agricultural Outlook Board (WAOB)</u> issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities.

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National specialists are available to answer your question by phone or E-mail. See these Internet sites for telephone numbers and E-mail addresses:  Statistics from USDA, NASS Economists in USDA, ERS  Internet: www.usda.gov/nass/nassinfo/speccomm.htm Internet: www.ers.usda.gov						

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#### **ANTHURIUM**

Hawaiian Anthurium Industry Association P.O. Box 4755 Hilo, HI 96720 (808) 965-8307

#### **AQUACULTURE**

Hawaii Aquaculture Association Aquaculture Development Program 1177 Alakea St. Rm 400 Honolulu, HI 96813 (808) 587-0030

#### **AVOCADO**

Hawaii Avocado Association P.O. Box 925 Kealakekua, HI 96750 (808) 885-6960

#### AWA (KAWA)

Association for Hawaiian Awa P.O. Box 636 Pepeekeo, HI 96783 (808) 969-7079

Hawaii Awa Council P.O. Box 262 Kurtistown, HI 96760 (808) 968-6237

#### **BANANA**

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#### **BEEKEEPERS**

Big Island Beekeepers Association P.O. Box 430 Papaikou, HI 96781 (808) 964-5401

Hawaii Beekeepers Association 3081 G Paty Drive Honolulu, HI 96822 (808) 988-7203

#### **CATTLE**

Hawaii Beef Industry Council P.O. Box 1166 Ewa Beach, HI 96706 (808) 672-5042

#### **COFFEE**

Kona Coffee Council P.O. Box 2077 Kealakekua, HI 96750 (808) 328-9548

Kona Pacific Farmers Cooperative P.O. Box 309 Captain Cook, HI 96704 (808) 328-2411

Hawaii Coffee Association P.O. Box 8 Eleele, HI 96705 (808) 335-5497

#### **CROP IMPROVEMENT**

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#### **EGG**

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#### **FARM (General)**

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Dendrobium Orchid Growers Association of Hawaii (DOGAH) P.O. Box 1324. Wahiawa, HI 96786

Hawaii Association of Nurserymen 938 Kamilonui Pl. Honolulu, HI 96825 (808) 395-9811

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Hawaii Turfgrass Association 1085 S. Beretania St. Suite 203 Honolulu, HI 96814 (808) 545-2257

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Hawaii Papaya Industry Association P.O. Box 537 Pahoa, HI 96778 (808) 965-8699

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Maui Farmer's Cooperative Exchange 970 B Lower Main St. Wailuku, HI 96793 (808) 242-9767

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# PHOTOGRAPHY ACKNOWLEDGEMENTS

Cover photo: Macadamia nut orchards, Island of Hawaii. Photo courtesy of the Hawaii

Macadamia Nut Association and the Limtiaco Company.

Fruits: Pineapple field, courtesy of HASS staff, page 35.

Vegetable, Melon,

and Taro: An assortment of tomatoes and green peppers, courtesy of HASS staff,

page 46.

Special Statistics: Planting pineapple slips, courtesy of HASS staff, page 85.